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**Till Geochemistry of the
St. Stephen (NTS 21 G/03)
Map Area, Charlotte County,
New Brunswick**

A.G. Pronk, S. Allard, and R. Boldon

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Minister of Natural Resources

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ABSTRACT

Regional till sampling in the St. Stephen (NTS 21 G/03) area took place on a 2 km grid and samples were analyzed for a wide range of elements. Field and laboratory methodology are described and contour plots for As, Sb, Cu and Pb are presented. A full field and analytical data listing is included in the report.

RÉSUMÉ

On a effectué un échantillonnage régional de tills suivant une grille de 2 km sur 2 km dans le secteur de St. Stephen (SNRC 21 G/03) et on a analysé la teneur en un vaste éventail d'éléments des échantillons. Le rapport pertinent décrit les méthodes de prélèvement des échantillons et d'analyse en laboratoire, et il présente des tracés de contours de l'As, du Sb, du Cu et du Pb. Le rapport comprend une liste complète des données de terrain et des données d'analyse.

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CD-ROM

Contains Open File 2003-12 (PDF format), Appendix 1 (PDF format), and Appendices 2 and 3 (EXCEL format), Plates 2003-17A to -17E (PDF format) in pocket

Paper copies of the following maps are available separately from the New Brunswick Minerals, Policy and Planning Division:

- Plate 2003-17A Till sample site locations in the St. Stephen map area (NTS 21 G/03), New Brunswick. A.G. Pronk, S. Allard, R. Boldon. 2003. Scale: 1:50 000.
- Plate 2003-17B Colour contour plot of copper in till, St. Stephen map area (NTS 21 G/03), New Brunswick. A.G. Pronk, S. Allard, R. Boldon. 2003. Scale: 1:50 000.
- Plate 2003-17C Colour contour plot of lead in till, St. Stephen map area (NTS 21 G/03), New Brunswick. A.G. Pronk, S. Allard, R. Boldon. 2003. Scale: 1:50 000.
- Plate 2003-17D Colour contour plot of arsenic in till, St. Stephen map area (NTS 21 G/03), New Brunswick. A.G. Pronk, S. Allard, R. Boldon. 2003. Scale: 1:50 000.
- Plate 2003-17E Colour contour plot of antimony in till, St. Stephen map area (NTS 21 G/03), New Brunswick. A.G. Pronk, S. Allard, R. Boldon. 2003. Scale: 1:50 000.

Till Geochemistry of the St. Stephen (NTS 21G/03) Map Area, Charlotte County, New Brunswick

INTRODUCTION

This Open File consists of a brief description of the methodology of sampling and the analytical procedures, a full listing of field data and analytical data, as well as contour plots for selected elements (As, Sb, Cu, and Pb).

Till sampling in the St. Stephen map area (Appendix 1) took place during the summer of 2002 and was done on a loose 2 km grid, resulting in a sampling density of 1 sample per 4 km². A field duplicate sample was taken for each block of 20 samples.

Field methodology and site spacing in the St. Stephen area were influenced by the presence of abundant glaciofluvial and ablation till deposits as well as by subsequent marine activity. This emphasizes the importance of recognizing surficial deposits of different genesis.

Sample preparation was done in-house by the Geological Survey Branch technicians (Fredericton). Lab duplicate and standard samples were added and all samples were submitted for geochemical analysis to Becquerel Labs, Mississauga, Ontario for Instrumental Neutron Activation Analysis (INAA) and to ACME Labs, Vancouver, B.C. for Inductively Coupled Plasma Emission-Mass Spectrometry (ICP-MS).

This Open File contains an Excel file with all field and geochemical data and selected geochemistry plots in PDF (Adobe Acrobat) and GEO-Tiff format. Printed copies of the contour plots are also available (1:50,000 scale). Plots for gold were not included because of the skewed database that results from the inadequate detection limit and the nugget effect (see analytical methods below). Gold anomalies can be viewed in the tables and should be compared with the pathfinder elements (As, Sb).

CONTOUR MAPS

The contour maps show geochemical relief (variation in concentration) across the study area for the specific element. The presentation of this data in visual format allows for enhanced recognition of anomalous zones, dispersal patterns, or any other trends. They can be used as a quick reference in distinguishing areas that warrant further investigation from those that are less favorable.

Surfer 8® is the contouring program used. Raw geochemical data is converted to percentiles and contoured using the point kriging method. Point kriging estimates the values at grid nodes by using a moving-average technique of contouring, thereby compensating for the somewhat irregular spacing of the sample sites. Statistically, kriging is based on the Theory of Regionalized Variables. A variable is considered a 'regionalized variable' if it varies from one

place to another with apparent continuity. Such is the case with geochemical data; therefore kriging is viewed as the best suited contouring method.

ANALYTICAL PROCEDURES

(adapted from National Geochemical Reconnaissance open file text)

Instrumental Neutron Activation Analysis (INAA)

Weighed and encapsulated samples are packaged for irradiation along with internal standards and international reference materials. Samples and standards are irradiated together with neutron flux monitors in a two-megawatt pool-type reactor. After a seven-day decay period, samples are measured with a high-resolution germanium detector. Typical counting times are 500 seconds. Elements determined by INAA include: Ag, As, Au, Ba, Br, Cd, Ce, Co, Cr, Cs, Eu, Fe, Hf, Ir, La, Lu, Mo, Na, Ni, Rb, Sb, Sc, Se, Sm, Sn, Ta, Tb, Te, Th, U, W, Yb, Zn, and Zr. The sample weights are also reported. Elements and detection limits are shown in Table 1.

Data for Ag, Cd, Ir, Mo, Ni, Se, Sn, Te, Zn, and Zr are not published because of inadequate detection limits and/or precision.

Inductively Coupled Plasma Emission - Mass Spectrometry (ICP-MS)

For the determination of 35 elements listed in Table 2, a one gram sample is leached with 6 ml of a mixture of HCl, HNO₃, and distilled, de-ionized water (2:2:2 v/v) at 95° C for one hour. The sample solution is diluted to 20 ml and analysed by inductively coupled plasma emission spectroscopy on a Jarell Ash instrument and inductively coupled plasma mass spectroscopy on a Perkin Elmer Elan instrument.

COMPARISON OF DATA PRODUCED BY TWO METHODS

Analytical results obtained by the two methods are listed for several elements. Caution should be exercised in comparing data generated by the two methods.

Results for As, Ba, Co, Cr, Fe, La, Na, Sb, Sc, Th, U and W in sediments were obtained by ICP-MS using a partial extraction method with an HNO₃ - HCl digestion. Data for these elements obtained by INAA are 'total' data. Hence, ICP-MS results will likely be lower than those obtained by INAA.

Table 1. Elements in Till Determined by Instrumental Neutron Activation Analysis. Minimum Detection Limits are Also Shown (Below).

ELEMENT		DETECTION LEVEL	
As	Arsenic	0.5	ppm
Au	Gold	2	ppb
Ba	Barium	50	ppm
Br	Bromine	0.5	ppm
Ce	Cerium	5	ppm
Co	Cobalt	5	ppm
Cr	Chromium	20	ppm
Cs	Cesium	0.5	ppm
Eu	Europium	1	ppm
Fe	Iron	0.2	pct
Hf	Hafnium	1	ppm
La	Lanthanum	2	ppm
Lu	Lutetium	0.2	ppm
Na	Sodium	0.02	pct
Rb	Rubidium	5	ppm
Sb	Antimony	0.1	ppm
Sc	Scandium	0.2	ppm
Sm	Samarium	0.1	ppm
Ta	Tantalum	0.5	ppm
Tb	Terbium	0.5	ppm
Th	Thorium	0.2	ppm
U	Uranium	0.2	ppm
W	Tungsten	1	ppm
Yb	Ytterbium	2	ppm

Table 2. Elements in Till Determined by Inductively Coupled Plasma Emission - Mass Spectrometry. Minimum Detection Limits are Also Shown (Below)

ELEMENT		DETECTION LEVEL	
Ag	Silver	2	ppb
Al	Aluminum	0.01	pct
As	Arsenic	0.1	ppm
Ba	Barium	0.5	ppm
Bi	Bismuth	0.02	ppm
Cd	Cadmium	0.01	ppm
Ca	Calcium	0.01	pct
Co	Cobalt	0.1	ppm
Cr	Chromium	0.5	ppm
Cu	Copper	0.01	ppm
Fe	Iron	0.01	pct
Ga	Gallium	0.1	ppm
Hg	Mercury	5	ppb
K	Potassium	0.01	pct
La	Lanthanum	0.5	ppm
Mg	Magnesium	0.01	pct
Mn	Manganese	1	ppm
Mo	Molybdenum	0.01	ppm
Na	Sodium	0.001	pct
Ni	Nickel	0.1	ppm
P	Phosphorus	0.001	pct
Pb	Lead	0.01	ppm
S	Sulphur	0.01	pct
Sb	Antimony	0.02	ppm
Sc	Scandium	0.1	ppm
Se	Selenium	0.1	ppm
Sr	Strontium	0.5	ppm
Te	Tellurium	0.02	ppm
Th	Thorium	0.1	ppm
Ti	Titanium	0.001	pct
Tl	Thallium	0.02	ppm
U	Uranium	0.1	ppm
V	Vanadium	2	ppm
W	Tungsten	0.2	ppm
Zn	Zinc	0.1	ppm

PRESENTATION AND INTERPRETATION OF GOLD DATA

The following discussion reviews the format used to present the gold geochemical data and outlines some important points to consider when interpreting these data. This discussion is included in recognition of the special geochemical behaviour and mode of occurrence of gold in nature and the resultant difficulties in obtaining and analyzing samples reflecting the true concentration level at a given site.

An appropriate interpretation of geochemical gold data from regional till surveys requires an appreciation of the unique chemical and physical characteristics of gold and its mobility in the surficial environment. Key properties of gold that distinguish its geochemical behaviour from most other elements include:

1. Gold occurs most commonly in the native form, which is chemically and physically resistant. A significant proportion of the metal is dispersed in a micron-sized particulate form, and the high specific gravity of gold results in a heterogeneous distribution.
2. Gold typically occurs at low concentrations, in the parts per billion (ppb) range. Whereas gold concentrations of only a few parts per million (ppm) may represent economic deposits, background levels in tills seldom exceed 10 ppb, and commonly are near the detection limit of 2 ppb.

These factors result in a particle sparsity effect wherein very low concentrations of gold are heterogeneously enriched or depleted in the surficial environment. Hence, a major problem facing the geochemist is to obtain a representative sample. In general, areas where concentrations of gold in sediments are low, and/or grain sizes of the gold present are relatively high, require proportionally larger samples to reduce the variability between subsample analytical values. Conversely, as actual gold concentrations increase, or grain size decreases, the number of gold particles to be split between random subsamples increases and the variability of results decreases. The limited amount of material collected during the rapid, reconnaissance-style regional surveys and the need to analyze for a broad spectrum of elements, precludes the use of a significantly large sample weight for the gold analyses. Therefore, to obtain representative samples, sieving of the dried sediments is employed to reduce grain size.

The following control methods are currently applied to evaluate and monitor the sampling and analytical variability, which are inherent in the analysis of gold in geochemical media.

For each block of 20 samples:

- a) Random insertion of a standard reference sample to control analytical accuracy and long-term precision;

- (b) Collection of a field duplicate (two samples from one site) to measure sampling and analytical variance;
- (c) Analysis of a second subsample (blind duplicate) from one sample to measure and control short-term precision or analytical variance.

In summary, geochemical follow-up investigations for gold should be based on a careful consideration of all geological and geochemical information, and especially a careful appraisal of gold geochemical data and its variability. In some instances, pathfinder element associations in favourable geology may indirectly identify prospective follow-up areas, even though an anomalous gold response due to natural variability may be lacking.

Once an anomalous area has been identified, field investigations should be designed to include detailed geochemical follow-up surveys and collection of large representative samples. Subsequent repeat subsample analyses will increase the reliability of results and permit a better understanding of natural variability which can then be used to improve sampling methods and interpretation.

REFERENCE

Friske P.W.B., Pronk A.G., McCurdy M.W., Day S.J.A., McNeil R.J., Boldon R. 2002: Regional Stream Sediment and Water Geochemical Data, Central New Brunswick (NTS 21 J/06 and 21 J/10); Geological Survey of Canada, Open File 4112 / New Brunswick Department of Natural Resources and Energy, Open File 2002-1.

Appendix 1.

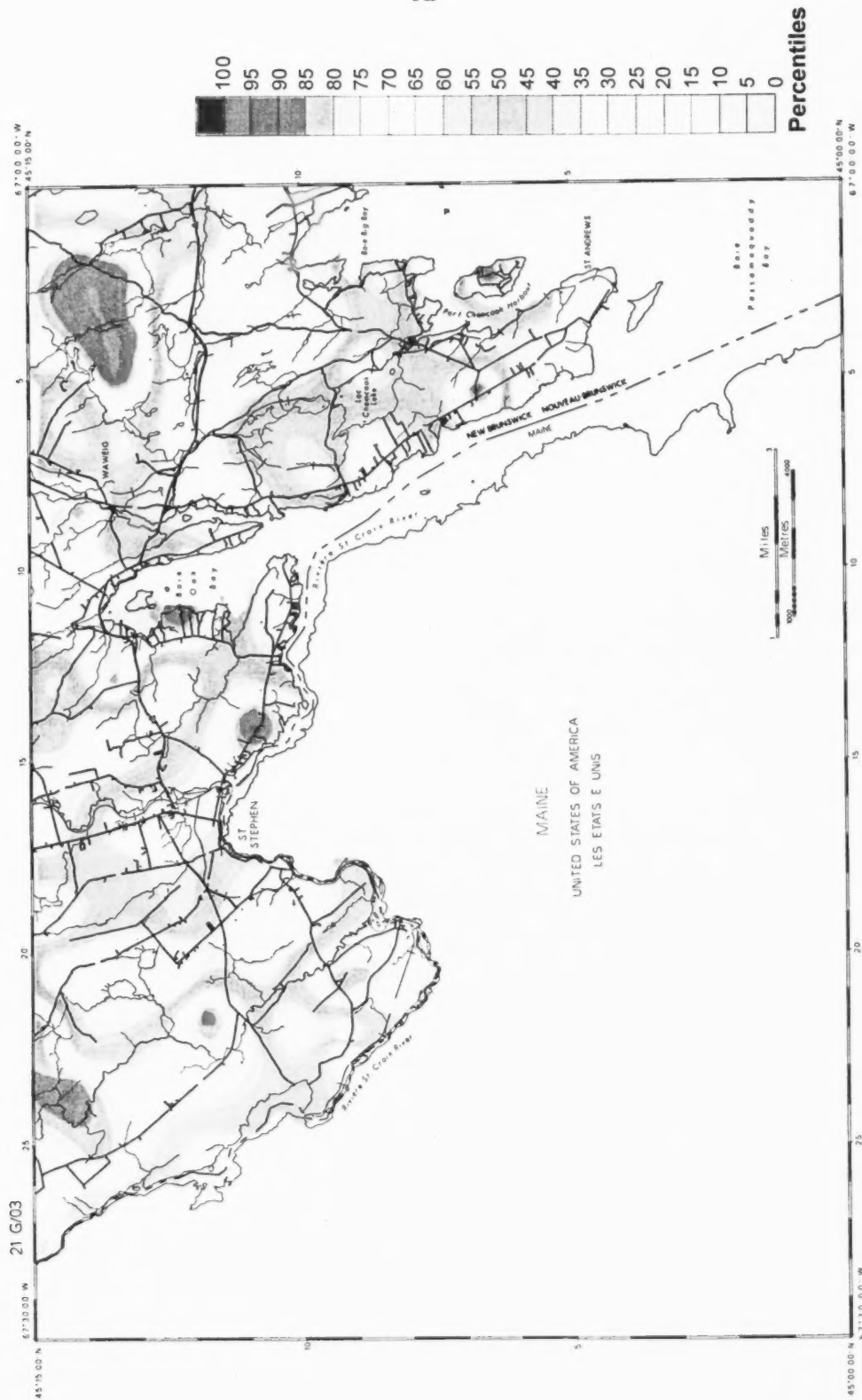
Till Sample Site Locations and Colour Contour Plots,

St. Stephen Map Area (NTS 21 G/03)

Till sample site locations in the St. Stephen map area (NTS 21 G/03), New Brunswick.

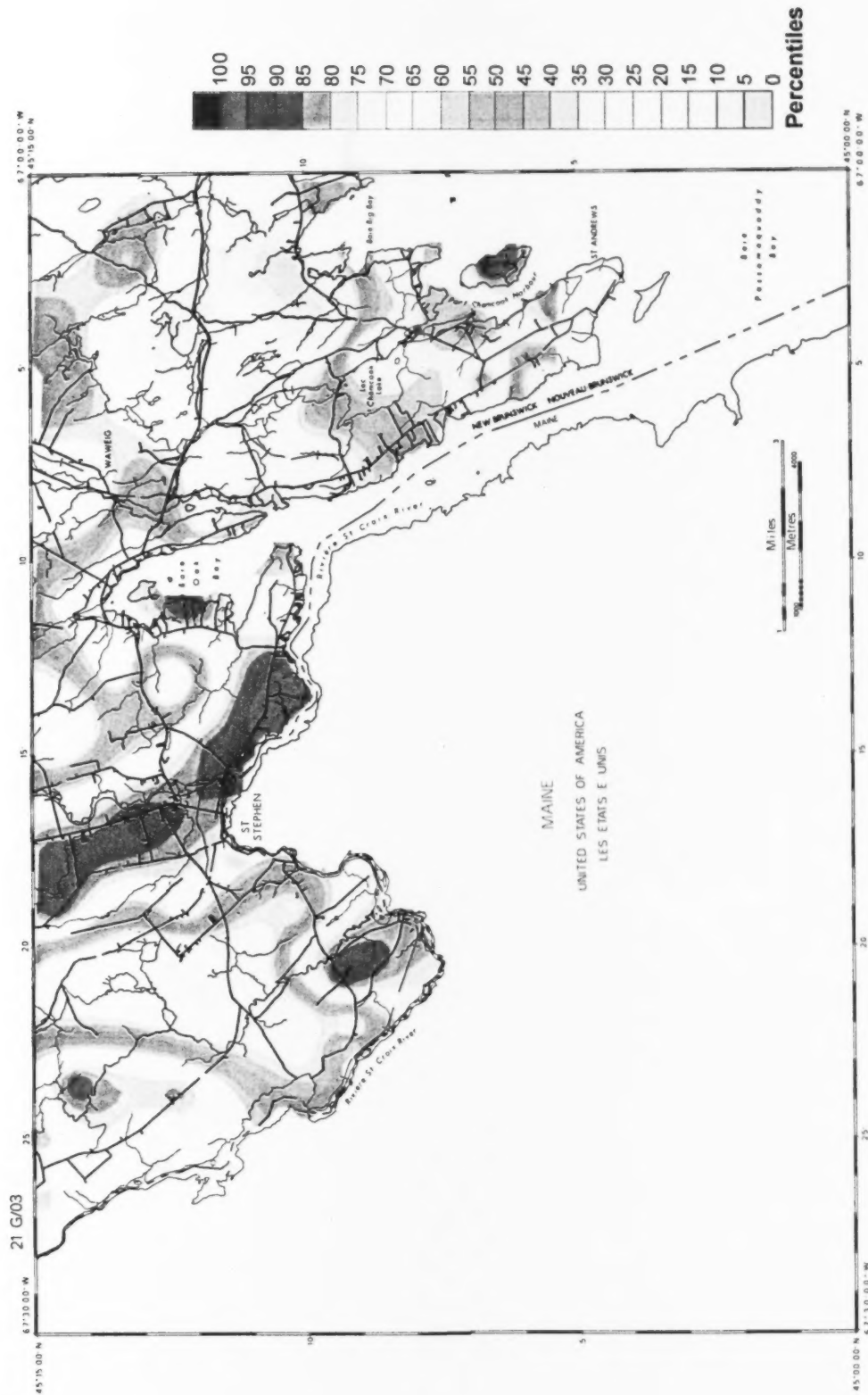


Copper in till in the St. Stephen map area (NTS 21 G/03), New Brunswick.



Lead in till in the St. Stephen map area (NTS 21 G/03), New Brunswick.

Arsenic in till in the St. Stephen map area (NTS 21 G/03), New Brunswick.



Antimony in till in the St. Stephen map area (NTS 21 G/03), New Brunswick.

Appendix 2.

Analytical Data, St. Stephen Map Area (NTS 21 G/03)

Appendix 2. Analytical Data, St. Stephen Map Area (21 G/03)

Becquerel LABORATORIES 6790 Kitimat Rd, Unit #4 Mississauga, ON, Canada, L5N 5L9 Ph: (905) 826-3080 Fax : (905) 826-4151 email : ballen@becquerellabs.com T02-00705.0 Analysis performed by Neutron Activation (Method BQ-NAA-1) A negative result denotes "Less Than" Note: Samples # 30,144 have an elevated Te detection limit due to high As.												
	UTM Eastings	UTM Northings	Sb	As	Ba	Br	Cd	Ce	Cs	Cr	Co	
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
SS02C02	0622217	5011073	1.3	18.0	470	1.7	-5	97	4.5	91	14	
SS02C03	0622522	5009547	1.3	18.0	410	2.9	-5	110	3.2	82	11	
SS02D02	0624118	5011209	1.0	19.0	420	33.0	-5	77	5.8	130	17	
SS02D03	0623806	5009236	1.3	15.0	440	2.0	-5	100	4.2	98	12	
SS02D04	0624380	5007575	1.1	22.0	450	3.0	-5	98	5.1	91	14	
SS02D04.5	0624085	5005774	1.3	13.0	390	5.7	-5	92	3.2	82	12	
SS02E02	0626020	5010261	1.4	45.0	430	7.9	-5	120	4.9	100	21	
SS02E03	0626199	5008265	1.2	27.0	420	13.0	-5	98	6.8	85	14	
SS02E04	0625883	5006771	1.2	18.0	420	3.5	-5	100	4.2	77	14	
SS02E04FD	0625883	5006771	1.3	18.0	440	2.6	-5	91	4.4	90	14	
SS02E05	0625648	5005376	1.3	22.0	440	4.4	-5	99	4.4	89	16	
SS02E06.5	0626693	5002003	1.0	30.0	370	5.7	-5	110	4.1	90	13	
SS02F02	0628316	5011388	1.0	34.0	330	5.9	-5	140	6.5	86	13	
SS02F02.5	0627500	5009944	1.1	28.0	430	7.8	-5	100	4.7	97	14	
SS02F04.5	0628722	5005777	0.8	24.0	350	7.2	-5	110	11.0	82	10	
SS02F05.5	0627709	5003904	0.8	49.0	290	41.0	-5	100	4.1	88	14	
SS02F06	0628303	5002814	0.9	35.0	340	22.0	-5	93	4.3	94	15	
SS02F07	0628045	5000975	0.9	17.0	420	12.0	-5	90	3.9	96	9	
SS02F07A	0627874	5001018	1.2	39.0	350	2.7	-5	100	3.3	79	17	
SS02G02	0629956	5011000	0.9	28.0	370	10.0	-5	110	13.0	150	24	
SS02G03	0630183	5009483	0.9	20.0	320	16.0	-5	98	5.0	76	11	
SS02G04	0630214	5007106	0.8	11.0	350	23.0	-5	93	4.4	100	11	
SS02G05.5	0630946	5003833	0.9	85.9	340	15.0	-5	98	7.2	100	16	
SS02G06	0630674	5002766	1.4	41.0	380	2.1	-5	120	3.9	81	18	
SS02G07	0629714	5001306	1.6	30.0	500	0.8	-5	110		110	18	
SS02G07FD	0629714	5001306	1.5	27.0	470	-0.5	-5	100		96	20	
SS02G07.5	0630162	5000297	1.6	24.0	470	3.1	-5	96	5.0	110	20	
SS02H02	0631859	5011067	1.6	22.0	470	2.8	-5	100	5.8	100	17	
SS02H03	0632095	5008467	0.9	27.0	340	18.0	-5	110	5.4	100	19	
SS02H04	0631840	5006747	1.2	21.0	410	8.7	-5	100	4.3	82	16	
SS02H06	0632123	5002840	0.8	18.0	300	7.5	-5	100	3.4	85	31	
SS02K02	0634438	5011556	1.4	30.0	450	3.6	-5	110	5.3	90	15	
SS02K03	0633557	5008875	1.4	23.0	440	2.1	-5	100	5.3	86	16	
SS02KL03	0635020	5008586	1.4	28.0	480	2.8	-5	100	6.7	120	28	
SS02L02	0636551	5011585	1.0	30.0	450	3.1	-5	110	6.2	96	15	
SS02M02	0638175	5011040	0.7	27.0	370	39.0	-5	120	11.0	100	13	
SS02M03	0638029	5009696	1.0	17.0	390	19.0	-5	89	4.5	88	10	
SS02M04.5	0637636	5006188	1.4	24.0	450	1.6	-5	95	5.3	110	20	
SS02M05	0638778	5004450	4.3	33.0	430	8.2	-5	120	11.0	120	30	

Appendix 2. Analytical Data, St. Stephen Map Area (21 G/03)

	UTM Eastings	UTM Northings	Sb	As	Ba	Br	Cd	Ce	Cs	Cr	Co
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SS02N02	0639952	5011070	0.9	20.0	470	1.2	-5	110	6.9	95	15
SS02N03	0639901	5009279	1.1	38.0	490	9.2	-5	110	7.6	99	20
SS02N04	0639856	5007395	0.8	14.0	410	4.5	-5	88	4.7	96	12
SS02N05.5	0640262	5003989	1.6	26.0	400	7.1	-5	100	4.7	90	21
SS02P02-1	0642283	5011210	1.1	26.0	460	14.0	-5	120	5.6	85	22
SS02P02-2	0642283	5011210	1.5	30.0	450	0.6	-5	87	6.1	93	24
SS02P04	0642296	5006977	3.0	74.2	480	15.0	-5	110	10.0	110	28
SS02P05.5	0641820	5004017	1.1	35.0	350	7.3	-5	97	4.6	86	16
SS02PQ06	0643298	5002956	1.1	21.0	410	16.0	-5	83	5.3	98	15
SS02Q03	0644854	5009425	1.0	24.0	450	3.6	-5	110	5.7	90	17
SS02QR04	0645157	5006463	0.9	24.0	370	23.0	-5	110	6.0	91	18
SS02R02	0645821	5010486	0.4	10.0	210	146.0	-5	78	3.7	73	6
SS02R03	0646213	5008759	0.9	28.0	350	25.0	-5	100	6.6	85	14
SS02R05	0646389	5004857	0.9	13.0	340	18.0	-5	98	4.7	110	11
SS02R06	0647164	5002206	0.8	18.0	280	81.5	-5	83	5.3	58	8
SS02S02	0648006	5010633	0.9	23.0	370	35.0	-5	100	4.5	82	15
SS02S03	0648023	5009072	0.9	17.0	410	14.0	-5	95	5.6	80	16
SS02S04	0648631	5007259	0.8	17.0	360	9.2	-5	100	4.2	88	14
SS02S05	0648490	5005098	0.8	22.0	320	26.0	-5	100	5.0	80	11
SS02S07	0647698	5000927	1.1	34.0	310	19.0	-5	120	4.2	91	12
SS02ST06	0648998	5002957	0.9	20.0	360	11.0	-5	110	3.9	73	16
SS02T02	0649777	5011028	0.9	16.0	420	6.9	-5	92	5.3	88	16
SS02T03	0650434	5009473	0.9	20.0	320	32.0	-5	220	5.1	71	13
SS02T04	0649988	5006439	0.8	21.0	310	16.0	-5	98	3.2	80	12
SS02T05	0649524	5004711	0.8	13.0	210	109.0	-5	86	13.0	43	-3
SS02T08	0650006	4998664	1.1	41.0	330	74.1	-5	120	5.0	78	12
SS02T09	0650259	4996976	1.7	52.2	290	113.0	-5	49	25.0	94	18
SS02T10	0650384	4995144	0.9	22.0	240	50.9	-5	66	3.9	77	9
SS02TV07	0651140	5001226	1.1	18.0	440	3.2	-5	110	6.4	97	18
SS02V02	0651634	5011859	0.9	19.0	390	20.0	-5	89	6.7	110	15
SS02V03	0651727	5008885	0.7	24.0	280	60.0	-5	210	5.8	91	8
SS02V04	0652076	5007518	0.7	15.0	280	19.0	-5	93	2.9	80	10
SS02V05-1	0652052	5005352	0.9	22.0	320	27.0	-5	97	4.1	78	16
SS02V05-2	0652052	5005352	1.4	25.0	330	13.0	-5	92	4.9	85	15
SS02V06	0652053	5002333	0.6	15.0	330	33.0	-5	98	12.0	100	12
SS02V09	0652076	4997506	0.9	17.0	320	22.0	-5	100	3.7	76	12
SS02V10	0652360	4994561	1.6	28.0	400	16.0	-5	76	5.1	64	14
SS02W02	0652360	4994561	0.9	16.0	380	11.0	-5	160	7.0	82	11
SS02W03	0654301	5011030	1.1	34.0	340	27.0	-5	130	4.6	95	16
SS02W04	0653932	5009306	0.7	17.0	310	42.0	-5	100	5.1	96	19
SS02W05.5	0653629	5007139	0.5	19.0	250	76.3	-5	120	8.8	77	11
SS02W07	0654023	5003859	1.1	17.0	440	1.3	-5	98	5.1	100	14
SS02W08	0654163	5000335	1.1	20.0	360	11.0	-5	97	5.3	85	12
SS02W08-1	0654452	4998579	1.1	20.0	340	10.0	-5	97	5.3	69	12
SS02W9.5A	0654114	4996974	3.4	25.0	220	54.6	-5	74	29.0	60	9
SS02W9.5B	0654707	4995455	1.2	21.0	430	2.6	-5	86	5.5	81	17
SS02W9.5C	0653700	4996194	1.2	18.0	450	5.8	-5	110	5.5	81	15
SS02X02	0656351	5011298	0.9	20.0	390	15.0	-5	110	4.8	78	11
SS02X03	0655594	5009009	0.9	16.0	410	7.9	-5	98	4.5	77	13
SS02X04	0655342	5006980	0.9	22.0	350	28.0	-5	110	7.1	97	16
SS02X05	0655800	5004645	0.7	18.0	290	74.7	-5	110	3.9	88	7
SS02X06	0655969	5002988	1.0	20.0	390	6.2	-5	92	4.2	88	15

Becquerel
LABORATORIES

6790 Kitimat Rd, Unit #4

Mississauga, ON, Canada, L5N 5L9

Ph: (905) 826-3080 Fax : (905) 826-41

email : ballen@becquerellabs.com

T02-00705.0

Analysis performed by Neutron Activation (Met)

A negative result denotes "Less Than"

Note: Samples # 30,144 have an elevated Te

	UTM Eastings	UTM Northings	Eu	Au	Hf	Ir	Fe	La	Lu	Mo	Ni	Rb	Sm
	NAD27 (m)	NAD27 (m)	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm
SS02C02	0622217	5011073	2	-2	8	-50	3.9	44	0.6	-1	46	98	8.3
SS02C03	0622522	5009547	2	-2	14	-50	3.3	51	0.8	-1	37	76	10.0
SS02D02	0624118	5011209	2	-2	7	-50	4.4	34	0.5	-1	46	110	6.4
SS02D03	0623806	5009236	2	-2	10	-50	3.5	47	0.8	-1	37	93	8.6
SS02D04	0624380	5007575	2	-2	11	-50	3.4	44	0.7	-1	28	110	7.9
SS02D04.5	0624085	5005774	3	-2	12	-50	2.9	42	0.6	-1	29	84	7.6
SS02E02	0626020	5010261	2	-2	11	-50	4.1	41	0.7	-1	47	88	7.9
SS02E03	0626199	5008265	2	-2	11	-50	3.5	43	0.6	-1	32	98	7.7
SS02E04	0625883	5006771	2	2	10	-50	3.4	41	0.6	-1	44	96	7.5
SS02E04FD	0625883	5006771	-1	5	10	-50	3.7	40	0.6	-1	41	95	7.8
SS02E05	0625648	5005376	2	-2	13	-50	3.3	41	0.5	-1	41	100	8.1
SS02E06.5	0626693	5002003	2	3	14	-50	3.7	41	0.6	-1	46	78	7.8
SS02F02	0628316	5011388	3	-2	17	-50	3.1	51	0.9	-1	39	74	10.0
SS02F02.5	0627500	5009944	2	-2	12	-50	3.7	43	0.6	-1	38	100	7.7
SS02F04.5	0628722	5005777	2	2	8	-50	3.1	44	0.5	-1	29	110	7.4
SS02F05.5	0627709	5003904	2	3	12	-50	3.9	42	0.6	-1	48	69	7.4
SS02F06	0628303	5002814	2	-2	11	-50	3.7	38	0.6	-1	43	83	6.7
SS02F07	0628045	5000975	2	-2	13	-50	2.8	39	0.7	-1	38	89	7.2
SS02F07A	0627874	5001018	2	3	13	-50	3.1	41	0.7	-1	37	73	8.3
SS02G02	0629956	5011000	2	4	8	-50	4.0	43	0.5	-1	73	69	7.7
SS02G03	0630183	5009483	-1	-2	10	-50	3.3	40	0.5	-1	39	79	7.3
SS02G04	0630214	5007106	1	7	16	-50	3.3	40	0.7	-1	28	83	7.5
SS02G05.5	0630946	5003833	1	5	10	-50	4.2	41	0.6	-1	45	88	7.1
SS02G06	0630674	5002766	2	-2	13	-50	3.7	46	0.8	-1	45	81	8.7
SS02G07	0629714	5001306	3	2	10	-50	4.5	50	0.9	-1	47	110	10.0
SS02G07FD	0629714	5001306	2	-2	10	-50	4.2	46	0.7	-1	48	120	8.3
SS02G07.5	0630162	5000297	2	-2	10	-50	4.0	41	0.5	-1	47	100	6.9
SS02H02	0631859	5011067	2	-2	10	-50	4.2	44	0.7	-1	44	120	7.9
SS02H03	0632095	5008467	2	-2	12	-50	3.6	42	0.6	-1	54	68	7.4
SS02H04	0631840	5006747	2	-2	12	-50	3.7	43	0.7	-1	38	88	7.9
SS02H06	0632123	5002840	2	-2	10	-50	4.4	35	0.5	1	130	62	6.8
SS02K02	0634438	5011556	2	2	13	-50	3.9	43	0.6	-1	40	98	8.7
SS02K03	0633557	5008875	2	-2	11	-50	4.1	45	0.8	-1	47	93	9.1
SS02KL03	0635020	5008586	3	-2	7	-50	4.8	46	0.7	-1	85	110	8.8
SS02L02	0636551	5011585	2	-2	11	-50	3.9	50	0.9	-1	33	98	10.0
SS02M02	0638175	5011040	2	-2	10	-50	4.1	41	0.6	-1	56	96	6.8
SS02M03	0638029	5009696	2	-2	13	-50	3.4	41	0.8	-1	40	88	7.0
SS02M04.5	0637636	5006188	2	3	10	-50	4.3	45	0.8	-1	69	100	8.3
SS02M05	0638778	5004450	2	5	6	-50	7.3	48	0.7	2	59	93	7.8

Appendix 2. Analytical Data, St. Stephen Map Area (21 G/03)

	UTM Eastings	UTM Northings	Eu	Au	Hf	Ir	Fe	La	Lu	Mo	Ni	Rb	Sm
	NAD27 (m)	NAD27 (m)	ppm	ppb	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm
SS02N02	0639952	5011070	2	-2	11	-50	3.9	49	0.7	-1	38	110	8.9
SS02N03	0639901	5009279	2	-2	9	-50	4.7	39	0.6	3	47	100	6.7
SS02N04	0639856	5007395	1	-2	12	-50	3.1	38	0.7	-1	40	96	6.5
SS02N05.5	0640262	5003989	3	-2	10	-50	3.9	36	0.6	-1	71	93	7.1
SS02P02-1	0642283	5011210	2	-2	11	-50	3.9	42	0.7	-1	44	100	7.5
SS02P02-2	0642283	5011210	2	-2	11	-50	4.5	40	0.6	-1	42	110	7.9
SS02P04	0642296	5006977	3	9	9	-50	5.7	48	0.8	2	67	97	8.2
SS02P05.5	0641820	5004017	2	3	11	-50	3.6	37	0.8	-1	42	87	7.3
SS02PQ06	0643298	5002956	2	-2	10	-50	3.9	37	0.7	-1	39	100	6.3
SS02Q03	0644854	5009425	1	-2	11	-50	3.7	44	0.7	-1	40	96	7.9
SS02QR04	0645157	5006463	2	-2	10	-50	3.9	38	0.6	-1	26	84	6.3
SS02R02	0645821	5010486	1	-2	4	-50	3.6	30	0.4	-1	-10	17	5.1
SS02R03	0646213	5008759	1	-2	12	-50	3.6	41	0.7	-1	46	71	7.0
SS02R05	0646389	5004857	2	-2	12	-50	3.2	39	0.6	-1	32	73	7.2
SS02R06	0647164	5002206	2	-2	9	-50	3.2	29	0.4	-1	20	60	6.2
SS02S02	0648006	5010633	1	3	14	-50	3.6	45	0.8	-1	33	81	8.3
SS02S03	0648023	5009072	2	2	10	-50	3.5	42	0.6	-1	40	110	7.3
SS02S04	0648631	5007259	1	2	11	-50	3.1	41	0.6	-1	23	91	7.4
SS02S05	0648490	5005098	2	-2	12	-50	3.1	42	0.8	-1	27	88	8.0
SS02S07	0647698	5000927	2	2	17	-50	3.3	44	0.8	-1	26	76	8.3
SS02ST06	0648998	5002957	3	4	13	-50	3.0	47	0.8	-1	30	71	9.0
SS02T02	0649777	5011028	2	-2	9	-50	3.6	38	0.6	-1	38	110	6.7
SS02T03	0650434	5009473	2	-2	20	-50	2.9	54	1.1	-1	18	77	9.3
SS02T04	0649988	5006439	2	-2	13	-50	2.8	39	0.6	-1	30	79	7.7
SS02T05	0649524	5004711	1	-2	10	-50	3.4	33	0.7	-1	-10	48	7.9
SS02T08	0650006	4998664	3	7	14	-50	3.7	35	0.6	-1	35	68	6.9
SS02T09	0650259	4996976	-1	-2	8	-50	3.3	20	0.5	1	47	180	3.5
SS02T10	0650384	4995144	3	-2	16	-50	2.1	29	0.8	-1	21	57	6.5
SS02TV07	0651140	5001226	3	-2	9	-50	4.2	50	0.8	-1	47	98	8.5
SS02V02	0651634	5011859	-1	3	7	-50	4.2	38	0.6	-1	51	110	6.4
SS02V03	0651727	5008885	1	-2	15	-50	3.3	57	1.1	3	28	73	10.1
SS02V04	0652076	5007518	1	6	16	-50	2.4	39	0.8	-1	28	62	7.0
SS02V05-1	0652052	5005352	2	-2	14	-50	3.3	41	0.9	-1	36	66	7.6
SS02V05-2	0652052	5005352	3	-2	14	-50	3.1	39	0.7	-1	35	75	7.2
SS02V06	0652053	5002333	2	-2	13	-50	3.2	37	0.6	-1	23	90	6.4
SS02V09	0652076	4997506	2	-2	12	-50	3.3	39	0.7	-1	35	60	7.2
SS02V10	0652360	4994561	2	3	13	-50	3.0	34	0.6	-1	36	83	7.8
SS02W02	0652360	4994561	3	3	13	-50	3.3	46	0.8	-1	33	95	7.9
SS02W03	0654301	5011030	3	-2	14	-50	3.4	46	1.0	-1	33	82	10.8
SS02W04	0653932	5009306	2	-2	14	-50	3.5	40	0.8	-1	48	69	6.9
SS02W05.5	0653629	5007139	3	-2	12	-50	3.2	40	0.9	-1	33	55	8.1
SS02W07	0654023	5003859	3	-2	10	-50	3.9	45	0.8	-1	34	92	8.6
SS02W08	0654163	5000335	2	-2	12	-50	3.2	42	0.9	-1	31	76	8.1
SS02W08-1	0654452	4998579	3	-2	12	-50	3.1	39	0.7	-1	20	73	7.9
SS02W9.5A	0654114	4996974	1	-2	8	-50	3.8	32	0.6	-1	18	200	4.9
SS02W9.5B	0654707	4995455	2	3	10	-50	4.0	38	0.7	-1	44	100	7.6
SS02W9.5C	0653700	4996194	2	-2	9	-50	3.8	43	0.5	-1	44	100	8.6
SS02X02	0656351	5011298	2	3	14	-50	2.9	46	0.9	-1	29	92	10.0
SS02X03	0655594	5009009	2	-2	10	-50	3.1	38	0.8	-1	39	92	7.7
SS02X04	0655342	5006980	2	-2	12	-50	3.4	40	0.7	-1	39	87	7.3
SS02X05	0655800	5004645	1	-2	15	-50	3.0	41	0.8	-1	23	73	7.7
SS02X06	0655969	5002988	2	-2	12	-50	3.2	38	0.7	-1	38	76	8.3

 Becquerel LABORATORIES 6790 Kitimat Rd, Unit #4 Mississauga, ON, Canada, L5N 5L9 Ph: (905) 826-3080 Fax: (905) 826-41 email: ballen@becquerellabs.com T02-00705.0 Analysis performed by Neutron Activation (Met) A negative result denotes "Less Than" Note: Samples # 30,144 have an elevated Te													
	UTM Eastings	UTM Northings	Sc	Se	Ag	Na	Ta	Te	Tb	Th	Sn	Ti	W
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SS02C02	0622217	5011073	14.0	-5	-2	1.40	1.2	-10	1.4	12.0	-100	5700	2
SS02C03	0622522	5009547	13.0	-5	-2	1.80	1.6	-10	1.4	13.0	-100	6600	2
SS02D02	0624118	5011209	15.0	-5	-2	1.00	1.0	-10	1.1	11.0	-100	5100	1
SS02D03	0623806	5009236	13.0	-5	-2	1.50	1.5	-10	1.3	12.0	-100	5800	2
SS02D04	0624380	5007575	14.0	-5	-2	1.30	1.3	-10	1.3	13.0	-100	5700	2
SS02D04.5	0624085	5005774	11.0	-5	-2	1.60	1.1	-10	1.4	12.0	-100	5400	2
SS02E02	0626020	5010261	14.0	-5	-2	1.30	1.1	-10	1.2	14.0	-100	6000	2
SS02E03	0626199	5008265	13.0	-5	-2	1.30	1.2	-10	1.3	13.0	-100	5600	3
SS02E04	0625883	5006771	12.0	-5	-2	1.30	1.3	-10	1.2	12.0	-100	5700	2
SS02E04FD	0625883	5006771	12.0	-5	-2	1.20	1.1	-10	1.2	12.0	-100	5700	2
SS02E05	0625648	5005376	12.0	-5	-2	1.30	1.3	-10	1.3	14.0	-100	6200	2
SS02E06.5	0626693	5002003	12.0	-5	-2	1.60	1.2	-10	1.3	13.0	-100	6200	2
SS02F02	0628316	5011388	12.0	-5	-2	1.40	1.7	-10	1.6	15.0	-100	8000	4
SS02F02.5	0627500	5009944	13.0	-5	-2	1.40	1.2	-10	1.3	13.0	-100	6300	2
SS02F04.5	0628722	5005777	11.0	-5	-2	1.50	1.7	-10	1.1	14.0	-100	5300	2
SS02F05.5	0627709	5003904	11.0	-5	-2	1.50	1.3	-10	1.0	13.0	-100	5200	2
SS02F06	0628303	5002814	11.0	-5	-2	1.40	1.1	-10	1.2	11.0	-100	5400	2
SS02F07	0628045	5000975	11.0	-5	-2	1.50	1.3	-10	1.2	12.0	-100	5700	1
SS02F07A	0627874	5001018	12.0	-5	-2	1.50	1.2	-10	1.4	12.0	-100	6000	2
SS02G02	0629956	5011000	14.0	-5	-2	1.50	1.2	-10	1.3	12.0	-100	6600	41
SS02G03	0630183	5009483	10.0	-5	-2	1.30	1.4	-10	1.1	11.0	-100	6400	2
SS02G04	0630214	5007106	12.0	-5	-2	1.70	1.1	-10	1.3	11.0	-100	6400	2
SS02G05.5	0630946	5003833	13.0	-5	-2	1.50	1.1	-10	0.8	11.0	-100	6200	2
SS02G06	0630674	5002766	13.0	-5	-2	1.70	1.3	-10	1.4	13.0	-100	6200	2
SS02G07	0629714	5001306	17.0	-5	-2	1.40	1.2	-10	1.7	13.0	-100	5800	2
SS02G07FD	0629714	5001306	16.0	-5	-2	1.30	1.3	-10	1.3	13.0	-100	5700	2
SS02G07.5	0630162	5000297	15.0	-5	-2	1.30	1.2	-10	1.2	13.0	-100	5600	2
SS02H02	0631859	5011067	15.0	-5	-2	1.40	1.2	-10	1.2	12.0	-100	5900	2
SS02H03	0632095	5008467	12.0	-5	-2	1.60	1.3	-10	1.2	12.0	-100	6300	3
SS02H04	0631840	5006747	13.0	-5	-2	1.40	1.1	-10	1.1	12.0	-100	6200	3
SS02H06	0632123	5002840	13.0	-5	-2	1.40	1.0	-10	1.2	10.0	-100	6200	1
SS02K02	0634438	5011556	13.0	-5	-2	1.50	1.4	-10	1.2	13.0	-100	6800	2
SS02K03	0633557	5008875	15.0	-5	-2	1.50	1.5	-10	1.5	12.0	-100	6300	3
SS02KL03	0635020	5008586	16.0	-5	-2	1.30	1.2	-10	1.4	12.0	-100	5800	3
SS02L02	0636551	5011585	15.0	-5	-2	1.70	1.4	-10	1.5	12.0	-100	6400	3
SS02M02	0638175	5011040	14.0	-5	-2	1.50	1.2	-10	1.0	13.0	-100	5900	3
SS02M03	0638029	5009696	13.0	-5	-2	1.60	1.2	-10	1.0	12.0	-100	5800	3
SS02M04.5	0637636	5006188	15.0	-5	-2	1.60	1.4	-10	1.4	11.0	-100	5700	2
SS02M05	0638778	5004450	18.0	-5	-2	1.20	1.2	-10	1.3	14.0	-100	6400	2

Appendix 2. Analytical Data, St. Stephen Map Area (21 G/03)

	UTM Eastings	UTM Northings	Sc	Se	Ag	Na	Ta	Te	Tb	Th	Sn	Ti	W
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SS02N02	0639952	5011070	16.0	-5	-2	1.60	1.2	-10	1.4	13.0	-100	6300	3
SS02N03	0639901	5009279	17.0	-5	-2	1.30	1.3	-10	1.3	14.0	-100	6100	2
SS02N04	0639856	5007395	13.0	-5	-2	1.60	1.3	11	1.0	11.0	-100	6000	3
SS02N05.5	0640262	5003989	13.0	-5	-2	1.30	1.0	-10	1.1	11.0	-100	5900	2
SS02P02-1	0642283	5011210	14.0	-5	-2	1.50	1.2	-10	1.3	13.0	-100	6200	4
SS02P02-2	0642283	5011210	15.0	-5	-2	1.70	1.2	-10	1.4	12.0	-100	5500	2
SS02P04	0642296	5006977	19.0	-5	-2	1.10	1.5	-10	1.1	16.0	-100	7000	2
SS02P05.5	0641820	5004017	14.0	-5	-2	1.50	1.3	-10	1.2	11.0	-100	6200	1
SS02PQ06	0643298	5002956	14.0	-5	-2	1.50	1.4	-10	1.0	11.0	-100	5900	2
SS02Q03	0644854	5009425	15.0	-5	-2	1.60	1.2	-10	1.1	12.0	-100	5800	3
SS02QR04	0645157	5006463	13.0	-5	-2	1.50	1.0	-10	1.1	11.0	-100	5900	2
SS02R02	0645821	5010486	13.0	-5	3	0.45	0.6	-10	0.7	13.0	-100	2900	-1
SS02R03	0646213	5008759	14.0	-5	-2	1.60	1.2	-10	1.3	13.0	-100	6000	2
SS02R05	0646389	5004857	11.0	-5	-2	1.50	1.2	-10	1.2	14.0	-100	6100	-1
SS02R06	0647164	5002206	10.0	-5	-2	1.30	1.3	-10	1.2	12.0	-100	5600	2
SS02S02	0648006	5010633	12.0	-5	-2	1.70	1.5	-10	1.1	14.0	-100	6600	2
SS02S03	0648023	5009072	13.0	-5	-2	1.40	1.4	-10	1.2	13.0	-100	5800	3
SS02S04	0648631	5007259	12.0	-5	-2	1.70	1.3	-10	1.3	12.0	-100	5900	3
SS02S05	0648490	5005098	11.0	-5	-2	1.70	1.1	-10	1.5	11.0	-100	5700	3
SS02S07	0647698	5000927	12.0	-5	-2	1.90	1.5	-10	1.5	13.0	-100	6700	3
SS02ST06	0648998	5002957	12.0	-5	-2	1.90	1.4	-10	1.5	13.0	-100	6300	2
SS02T02	0649777	5011028	14.0	-5	-2	1.40	1.4	-10	1.1	12.0	-100	5600	2
SS02T03	0650434	5009473	10.0	-5	-2	2.00	1.3	-10	1.4	21.6	-100	5500	3
SS02T04	0649988	5006439	9.3	-5	-2	1.80	1.1	-10	1.4	12.0	-100	5900	2
SS02T05	0649524	5004711	10.0	-5	2	1.00	1.0	-10	1.6	11.0	-100	4900	2
SS02T08	0650006	4998664	12.0	-5	-2	1.60	1.3	-10	1.1	14.0	-100	5900	2
SS02T09	0650259	4996976	10.0	-5	-2	0.47	1.1	-10	0.8	15.0	-100	3200	2
SS02T10	0650384	4995144	10.0	-5	-2	1.40	1.1	-10	1.4	12.0	-100	4800	1
SS02TV07	0651140	5001226	17.0	-5	-2	1.60	1.1	-10	1.4	12.0	-100	6100	3
SS02V02	0651634	5011859	16.0	-5	-2	1.40	1.2	-10	0.9	12.0	-100	5700	1
SS02V03	0651727	5008885	12.0	-5	-2	1.70	1.3	-10	1.9	21.1	-100	5500	2
SS02V04	0652076	5007518	10.0	-5	-2	2.16	1.0	-10	1.1	11.0	-100	5400	1
SS02V05-1	0652052	5005352	12.0	-5	-2	2.04	0.9	-10	1.5	12.0	-100	6000	2
SS02V05-2	0652052	5005352	12.0	-5	-2	1.60	1.2	-10	1.3	12.0	-100	5900	2
SS02V06	0652053	5002333	12.0	-5	-2	1.50	0.9	-10	0.9	11.0	-100	5900	2
SS02V09	0652076	4997506	12.0	-5	-2	1.70	1.2	-10	1.1	11.0	-100	6200	2
SS02V10	0652360	4994561	10.0	-5	-2	1.30	1.4	-10	1.3	13.0	-100	6700	2
SS02W02	0652360	4994561	11.0	-5	-2	1.50	1.6	-10	1.2	19.0	-100	6300	2
SS02W03	0654301	5011030	12.0	-5	-2	1.70	1.4	-10	1.7	16.0	-100	6400	3
SS02W04	0653932	5009306	12.0	-5	-2	1.60	1.2	-10	1.2	13.0	-100	5500	1
SS02W05.5	0653629	5007139	13.0	-5	-2	1.50	1.2	-10	1.4	11.0	-100	5200	1
SS02W07	0654023	5003859	15.0	-5	2	1.60	1.3	-10	1.4	12.0	-100	5600	2
SS02W08	0654163	5000335	12.0	-5	-2	1.80	1.2	-10	1.5	12.0	-100	6000	3
SS02W08-1	0654452	4998579	12.0	-5	-2	1.80	1.1	-10	1.4	12.0	-100	5700	2
SS02W9.5A	0654114	4996974	10.0	-5	-2	0.30	1.1	-10	0.6	14.0	-100	3600	2
SS02W9.5B	0654707	4995455	13.0	-5	-2	1.50	1.0	-10	1.3	11.0	-100	5700	2
SS02W9.5C	0653700	4996194	13.0	-5	-2	1.30	1.3	-10	1.4	13.0	-100	6800	2
SS02X02	0656351	5011298	11.0	-5	-2	1.80	1.3	-10	1.6	15.0	-100	6300	3
SS02X03	0655594	5009009	13.0	-5	-2	1.60	1.1	-10	1.1	13.0	-100	5900	2
SS02X04	0655342	5006980	12.0	-5	-2	1.70	1.4	-10	1.2	13.0	-100	6000	2
SS02X05	0655800	5004645	11.0	-5	-2	1.70	1.4	-10	1.3	13.0	-100	5900	2
SS02X06	0655969	5002988	14.0	-5	-2	1.80	1.2	-10	1.4	11.0	-100	6000	1

Becquerel LABORATORIES 6790 Kitimat Rd, Unit #4 Mississauga, ON, Canada, L5N 5L9 Ph: (905) 826-3080 Fax : (905) 826-41 email : ballen@becquerellabs.com T02-00705.0 Analysis performed by Neutron Activation (Met A negative result denotes "Less Than" Note: Samples # 30,144 have an elevated Te (							
	UTM Eastings	UTM Northings	U	Yb	Zn	Zr	Wt
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	ppm	grams
SS02C02	0622217	5011073	2.5	3	-100	290	23.04
SS02C03	0622522	5009547	3.4	3	-100	490	36.20
SS02D02	0624118	5011209	3.0	3	-100	-200	24.66
SS02D03	0623806	5009236	2.7	3	-100	470	28.44
SS02D04	0624380	5007575	2.8	3	-100	370	29.08
SS02D04.5	0624085	5005774	2.6	3	-100	360	30.62
SS02E02	0626020	5010261	2.9	2	-100	310	27.33
SS02E03	0626199	5008265	2.8	3	-100	390	30.05
SS02E04	0625883	5006771	2.6	3	-100	480	27.13
SS02E04FD	0625883	5006771	2.6	2	-100	290	25.84
SS02E05	0625648	5005376	3.3	3	-100	530	32.19
SS02E06.5	0626693	5002003	3.6	3	-100	480	33.73
SS02F02	0628316	5011388	3.7	4	-100	580	34.43
SS02F02.5	0627500	5009944	2.9	3	-100	410	32.42
SS02F04.5	0628722	5005777	3.6	3	-100	340	29.87
SS02F05.5	0627709	5003904	2.9	3	-100	350	32.90
SS02F06	0628303	5002814	2.9	2	-100	410	33.35
SS02F07	0628045	5000975	3.4	3	-100	370	34.17
SS02F07A	0627874	5001018	3.4	3	-100	520	32.19
SS02G02	0629956	5011000	3.2	3	-100	480	32.05
SS02G03	0630183	5009483	2.9	2	-100	400	30.39
SS02G04	0630214	5007106	3.2	4	-100	540	32.09
SS02G05.5	0630946	5003833	3.2	3	-100	-200	29.42
SS02G06	0630674	5002766	3.1	3	-100	520	32.11
SS02G07	0629714	5001306	2.7	4	-100	350	27.69
SS02G07FD	0629714	5001306	2.7	3	-100	300	25.92
SS02G07.5	0630162	5000297	2.8	3	-100	300	25.08
SS02H02	0631859	5011067	2.7	3	-100	300	25.33
SS02H03	0632095	5008467	3.1	3	-100	600	33.53
SS02H04	0631840	5006747	2.8	3	-100	300	26.75
SS02H06	0632123	5002840	3.4	3	-100	320	32.49
SS02K02	0634438	5011556	3.8	2	-100	500	34.16
SS02K03	0633557	5008875	2.9	3	-100	440	30.15
SS02KL03	0635020	5008586	3.0	3	-100	260	21.18
SS02L02	0636551	5011585	3.6	4	-100	360	33.57
SS02M02	0638175	5011040	3.1	3	-100	420	35.01
SS02M03	0638029	5009696	2.7	3	-100	430	32.62
SS02M04.5	0637636	5006188	2.9	3	-100	250	25.98
SS02M05	0638778	5004450	4.2	3	-100	240	30.32

Appendix 2. Analytical Data, St. Stephen Map Area (21 G/03)

	UTM Eastings	UTM Northings	U	Yb	Zn	Zr	Wt
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	ppm	grams
SS02N02	0639952	5011070	3.2	3	-100	290	28.58
SS02N03	0639901	5009279	4.0	2	-100	310	28.85
SS02N04	0639856	5007395	3.0	3	-100	510	35.10
SS02N05.5	0640262	5003989	2.8	3	-100	290	28.19
SS02P02-1	0642283	5011210	3.3	3	-100	470	29.38
SS02P02-2	0642283	5011210	2.7	3	-100	500	31.24
SS02P04	0642296	5006977	3.9	3	120	380	29.82
SS02P05.5	0641820	5004017	2.8	3	-100	400	30.17
SS02PQ06	0643298	5002956	2.8	3	-100	520	32.37
SS02Q03	0644854	5009425	3.0	3	-100	590	30.11
SS02QR04	0645157	5006463	2.8	3	-100	330	29.42
SS02R02	0645821	5010486	1.9	-2	-100	320	20.46
SS02R03	0646213	5008759	3.0	3	-100	330	34.75
SS02R05	0646389	5004857	4.2	3	-100	370	34.31
SS02R06	0647164	5002206	3.2	-2	-100	410	27.06
SS02S02	0648006	5010633	3.0	3	-100	400	38.65
SS02S03	0648023	5009072	2.7	3	-100	360	27.94
SS02S04	0648631	5007259	2.8	3	-100	270	28.65
SS02S05	0648490	5005098	2.9	3	-100	510	31.07
SS02S07	0647698	5000927	3.4	4	-100	460	42.64
SS02ST06	0648998	5002957	3.4	4	-100	490	33.40
SS02T02	0649777	5011028	2.5	2	-100	-200	28.09
SS02T03	0650434	5009473	4.3	4	-100	790	39.60
SS02T04	0649988	5006439	3.1	3	-100	530	38.69
SS02T05	0649524	5004711	3.2	3	-100	300	26.60
SS02T08	0650006	4998664	3.2	2	-100	690	36.07
SS02T09	0650259	4996976	3.0	-2	-100	250	24.49
SS02T10	0650384	4995144	3.0	3	-100	340	40.17
SS02TV07	0651140	5001226	2.7	3	110	460	25.25
SS02V02	0651634	5011859	2.8	2	-100	320	26.11
SS02V03	0651727	5008885	5.7	5	-100	370	34.12
SS02V04	0652076	5007518	2.9	3	-100	500	40.01
SS02V05-1	0652052	5005352	2.9	4	-100	590	38.76
SS02V05-2	0652052	5005352	2.8	4	-100	330	33.63
SS02V06	0652053	5002333	2.7	3	-100	570	29.84
SS02V09	0652076	4997506	2.7	3	-100	500	36.05
SS02V10	0652360	4994561	3.3	2	-100	460	36.29
SS02W02	0652360	4994561	4.0	3	-100	520	30.34
SS02W03	0654301	5011030	6.5	3	-100	370	33.84
SS02W04	0653932	5009306	2.6	3	-100	520	30.01
SS02W05.5	0653629	5007139	3.0	4	-100	600	33.96
SS02W07	0654023	5003859	2.4	3	-100	480	26.45
SS02W08	0654163	5000335	3.0	4	-100	480	34.10
SS02W08-1	0654452	4998579	2.9	3	-100	360	33.00
SS02W9.5A	0654114	4996974	3.0	2	120	370	24.82
SS02W9.5B	0654707	4995455	2.7	3	-100	380	27.78
SS02W9.5C	0653700	4996194	2.8	-2	-100	310	24.25
SS02X02	0656351	5011298	6.5	4	-100	540	33.10
SS02X03	0655594	5009009	3.0	3	-100	450	29.84
SS02X04	0655342	5006980	3.1	3	-100	460	31.19
SS02X05	0655800	5004645	3.0	3	-100	610	34.38
SS02X06	0655969	5002988	2.8	3	-100	510	32.13

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)											
DNRE - Minerals Division											
Acme file # A300127 Received: JAN 17 2003 * 248 samples in this disk file.											
Analysis: GROUP 1F5 - 5.00 GM											
	UTM Eastings	UTM Northings	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%
SS02C02	0622217	5011073	0.34	25.12	12.23	58.9	12	41.5	12.1	596	3.14
SS02C03	0622522	5009547	0.28	19.1	11.46	42.2	12	28.7	10.2	497	2.44
SS02D02	0624118	5011209	0.75	22.94	12.45	79.3	59	49.8	16.7	660	3.66
SS02D03	0623806	5009236	0.5	20.2	13.22	51.3	14	37.2	11	568	2.73
SS02D04	0624380	5007575	0.38	20.14	11.86	45	25	28.2	11.9	473	2.61
SS02D04.5	0624085	5005774	0.33	19.48	9.89	44	21	27.4	9.6	376	2.35
SS02E02	0626020	5010261	0.44	34.65	17.6	60.7	8	44.8	15.9	599	3.24
SS02E03	0626199	5008265	0.5	22.85	12.13	55.7	61	33.2	11.8	399	2.75
SS02E04	0625883	5006771	0.55	20.05	12.23	51.6	5	35	12.6	553	2.74
SS02E04FD	0625883	5006771	0.41	19.68	11.46	52.9	13	29.1	11.7	608	2.81
SS02E05	0625648	5005376	0.43	20.88	11.81	49.5	16	31.8	11.7	455	2.63
SS02E06.5	0626693	5002003	0.67	28.98	11.24	64	53	33.5	10.3	229	2.49
SS02F02	0628316	5011388	0.68	26.06	13.2	46	122	26.8	8.4	196	2.37
SS02F02.5	0627500	5009944	0.47	22.14	10.69	59	20	33.9	10.7	397	2.82
SS02F04.5	0628722	5005777	0.41	14.54	17.09	64.8	525	23.3	8.1	232	2.31
SS02F05.5	0627709	5003904	0.84	27.48	11.61	65.6	14	39.4	10.9	232	2.77
SS02F06	0628303	5002814	0.67	14.86	9.35	69.2	31	37.6	11.5	249	2.82
SS02F07	0628045	5000975	0.54	16	8.08	55	139	33.6	8	280	2.05
SS02F07A	0627874	5001018	0.57	27.74	12.78	47.3	19	31.9	14.6	526	2.46
SS02G02	0629956	5011000	0.85	43.75	9.42	57.6	65	62.1	19.2	283	2.87
SS02G03	0630183	5009483	0.66	14.88	9.6	62.9	37	30.4	10	249	2.64
SS02G04	0630214	5007106	0.49	14.71	6.58	55.4	63	30	8.4	216	2.02
SS02G05.5	0630946	5003833	1.29	27.74	8.43	70.4	37	35.7	11.1	207	3
SS02G06	0630674	5002766	0.69	30.03	11.44	57.1	15	31.5	13.5	553	2.61
SS02G07	0629714	5001306	0.65	32.18	13.72	70.3	11	42.5	15.9	818	3.33
SS02G07FD	0629714	5001306	0.8	30.93	13.7	70.9	< 2	42.4	16.4	846	3.39
SS02G07.5	0630162	5000297	0.78	27.69	13.14	62.1	8	39.6	16.5	870	3.13
SS02H02	0631859	5011067	0.52	27.94	13.13	66.7	21	40.1	15.5	708	3.29
SS02H03	0632095	5008467	1.35	25.88	11.07	54.3	45	38.7	13.9	319	2.68
SS02H04	0631840	5006747	0.51	23.81	11.89	53.5	18	35.2	13.2	589	2.79
SS02H06	0632123	5002840	1.41	82.52	7.31	44.2	39	114.2	25.9	258	3.24
SS02K02	0634438	5011556	0.81	24.97	10.05	56.4	16	34.4	12.5	606	2.81
SS02K03	0633557	5008875	0.84	30.15	10.79	61.7	18	38.8	12.7	575	3.07
SS02KL03	0635020	5008586	0.79	48.23	13.07	74.4	13	85.1	25.2	790	3.93
SS02L02	0636551	5011585	0.75	23.24	10.32	54.3	49	35.6	12.4	503	2.71
SS02M02	0638175	5011040	1.19	34.22	11.12	78.3	149	47.9	12.3	272	3
SS02M03	0638029	5009696	0.5	16.54	8.35	53.5	45	30.3	9.4	295	2.44
SS02M04.5	0637636	5006188	0.54	35.85	11.85	62.9	17	60.5	15.2	606	3.22
SS02M05	0638778	5004450	2.5	53.22	21.72	90.1	59	47.8	20.4	420	5.42
SS02N02	0639952	5011070	0.74	23.59	10.41	49.1	8	35.2	12.8	518	2.86
SS02N03	0639901	5009279	3.29	52.78	13.65	93.4	124	47	16.9	415	3.7
SS02N04	0639856	5007395	0.36	16.23	8.06	40.7	9	28.9	8.7	338	2.29
SS02N05.5	0640262	5003989	0.82	27.01	11.11	62	44	57.8	16.8	540	3.03
SS02P02-1	0642283	5011210	0.59	25.67	12.73	56.6	15	39	18.7	664	2.87

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

	UTM Eastings	UTM Northings	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%
SS02P02-2	0642283	5011210	0.65	25.26	12.84	61.3	18	34.8	17.7	912	3.08
SS02P04	0642296	5006977	2.74	83.94	20.07	117.4	13	62.3	20.4	498	4.33
SS02P05.5	0641820	5004017	0.79	20.08	10.07	56.6	19	33.7	11.1	273	2.72
SS02PQ06	0643298	5002956	0.57	18.37	9.24	43.9	17	32.5	11.2	301	2.69
SS02Q03	0644854	5009425	0.49	24.27	10.87	52.4	6	34.3	13	638	2.72
SS02QR04	0645157	5006463	0.57	16.06	10.5	54.3	43	28.6	14.4	320	2.79
SS02R02	0645821	5010486	0.94	13.38	13.45	59.4	14	20.4	6.6	275	3.32
SS02R03	0646213	5008759	0.77	24.76	10.63	46.2	5	34.6	11.7	320	2.9
SS02R05	0646389	5004857	0.44	11.26	9.68	38.8	5	25.9	7.1	185	2.14
SS02R06	0647164	5002206	0.99	14.5	12.4	57.9	35	20	6.8	208	2.5
SS02S02	0648006	5010633	0.47	21.22	10.33	49.9	17	32.4	11.9	457	2.41
SS02S03	0648023	5009072	0.42	21.16	11.91	54.9	24	34.7	13.9	423	2.73
SS02S04	0648631	5007259	0.31	18.32	9.46	47.7	25	32.4	11.1	399	2.47
SS02S05	0648490	5005098	0.61	17.63	11.34	43.6	96	27.7	10.2	241	2.45
SS02S07	0647698	5000927	0.49	19.11	8.82	36.3	6	21.1	8.1	261	2.15
SS02ST06	0648998	5002957	0.43	18.96	11.26	39.5	11	25.7	11.6	501	2.18
SS02T02	0649777	5011028	0.44	23.03	10.6	56.1	10	36.7	13.4	607	2.99
SS02T03	0650434	5009473	1.03	8.61	30.2	44.2	44	16.6	9.4	287	1.95
SS02T04	0649988	5006439	0.43	19.45	8.12	32.2	13	23.7	10.8	386	1.88
SS02T05	0649524	5004711	1.99	7.44	10.91	52.1	46	13.6	5	143	2.74
SS02T08	0650006	4998664	0.65	21.98	11.11	45.8	13	29.5	10.9	262	2.5
SS02T09	0650259	4996976	2.04	6.41	19.15	39.7	68	27.7	15	579	2.11
SS02T10	0650384	4995144	0.56	6.78	5.14	20.9	22	14.4	5.9	243	1.3
SS02TV07	0651140	5001226	0.86	24.73	12.46	60.4	13	38	15.1	798	3.37
SS02V02	0651634	5011859	0.69	31.03	12.73	55.8	8	40	13.3	366	3.28
SS02V03	0651727	5008885	4.51	12.89	15.23	38.7	27	22.9	7	203	2.29
SS02V04	0652076	5007518	0.41	16.58	6.6	23.6	4	22.5	7.3	195	1.55
SS02V05-1	0652052	5005352	0.39	15.62	7.94	35.8	3	25.1	11.9	370	2.14
SS02V05-2	0652052	5005352	0.45	24.08	9.31	36.7	12	31.4	12.6	440	2.23
SS02V06	0652053	5002333	0.62	12.25	8.42	67.4	70	23.2	9.5	214	2.33
SS02V09	0652076	4997506	0.43	21.29	9.11	38.2	14	27.2	10.3	358	2.23
SS02V10	0652360	4994561	0.47	18.79	10.2	37	9	33.1	13.1	455	2.32
SS02W02	0652360	4994561	0.55	11.41	16.62	57	15	24.4	7.9	298	2.6
SS02W03	0654301	5011030	0.65	25.1	15.13	49.4	13	31.1	11.6	589	2.58
SS02W04	0653932	5009306	0.52	23.97	9.57	34.2	17	37.7	15	302	2.46
SS02W05.5	0653629	5007139	1.29	11.43	10.55	36.3	9	20.3	8.2	168	2.26
SS02W07	0654023	5003859	0.67	23.78	12.33	58.7	8	36.5	13.2	766	3.24
SS02W08	0654163	5000335	0.28	19.62	8.31	42.6	7	22.5	8.8	498	2.3
SS02W08-1	0654452	4998579	0.32	21.36	8.67	47.2	4	24.1	9.4	495	2.29
SS02W9.5A	0654114	4996974	0.4	3.51	18.91	63.5	188	9.7	5.7	278	2.7
SS02W9.5B	0654707	4995455	0.43	24.67	12.45	63.9	50	36	15	673	3.21
SS02W9.5C	0653700	4996194	0.54	21.18	12.57	53.9	11	34.9	13.6	723	3.25
SS02X02	0656351	5011298	0.67	12.68	9.91	39.9	10	24.4	9.5	441	2.19
SS02X03	0655594	5009009	0.39	21.64	10.63	48.9	19	32.5	11.4	555	2.69
SS02X04	0655342	5006980	0.41	25.56	11.89	52.2	36	36.1	12.5	417	2.7
SS02X05	0655800	5004645	0.92	14.77	9.12	50.5	34	27.4	7.6	317	2.33
SS02X06	0655969	5002988	0.45	25.92	9.63	42.6	25	33.5	11.3	639	2.48

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

ACME ANALYTICAL LABORATORIES LTD253-3158 FAX(604)253-1716												
DNRE - Minerals Division												
Acme file # A300127 Received: JAN 17 21												
Analysis: GROUP 1F5 - 5.00 GM												
	UTM Eastings	UTM Northings	As	U	Au	Th	Sr	Cd	Sb	Bi	V	
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SS02C02	0622217	5011073	14.9	0.7	1.7	8	9.4	0.02	0.59	0.21	35	
SS02C03	0622522	5009547	12.8	1.1	1.2	7.7	9.6	0.03	0.49	0.18	26	
SS02D02	0624118	5011209	15.2	1.2	1.8	3.6	5.4	0.05	0.46	0.28	39	
SS02D03	0623806	5009236	12.3	0.8	1.3	8	7.3	0.03	0.57	0.16	31	
SS02D04	0624380	5007575	17.1	0.8	0.9	8.8	5.9	0.02	0.51	0.21	31	
SS02D04.5	0624085	5005774	9.7	0.7	1.4	7	4.2	0.06	0.55	0.14	28	
SS02E02	0626020	5010261	38.4	1	0.8	8.6	5.6	0.04	0.73	0.27	39	
SS02E03	0626199	5008265	22.5	0.8	1.4	6.9	4.7	0.05	0.59	0.2	28	
SS02E04	0625883	5006771	15.4	0.7	1.8	8.3	7	0.02	0.66	0.2	34	
SS02E04FD	0625883	5006771	15	0.7	2	8.1	6.8	0.03	0.62	0.18	31	
SS02E05	0625648	5005376	17.1	0.9	4.3	8.1	3.9	0.05	0.55	0.19	30	
SS02E06.5	0626693	5002003	21.3	1.2	0.6	7	3.9	0.05	0.39	0.21	33	
SS02F02	0628316	5011388	23.8	1.1	1	7.9	3.3	0.06	0.37	0.28	31	
SS02F02.5	0627500	5009944	21.4	0.9	0.4	7.9	3.7	0.06	0.44	0.19	29	
SS02F04.5	0628722	5005777	18.7	1.6	0.3	8.2	3.5	0.09	0.29	0.81	24	
SS02F05.5	0627709	5003904	39.7	1.1	0.8	6.4	3.5	0.08	0.37	0.18	30	
SS02F06	0628303	5002814	28.1	1	0.8	6.3	3.8	0.05	0.34	0.19	32	
SS02F07	0628045	5000975	12.3	1.2	8.8	7.2	4.7	0.04	0.31	0.19	26	
SS02F07A	0627874	5001018	32.7	1.2	0.9	7.5	4	0.07	0.53	0.22	31	
SS02G02	0629956	5011000	22.9	1.4	2	7.9	5.2	0.08	0.36	0.42	42	
SS02G03	0630183	5009483	16.5	1	0.7	6.7	4.3	0.12	0.35	0.19	32	
SS02G04	0630214	5007106	8.2	0.9	0.5	6.1	5	0.03	0.27	0.19	29	
SS02G05.5	0630946	5003833	64.3	1.3	1.9	6.6	3.8	0.05	0.37	0.19	40	
SS02G06	0630674	5002766	29.5	1	3.7	7.5	4	0.06	0.57	0.19	30	
SS02G07	0629714	5001306	21	0.8	1.2	8.9	9.8	0.1	0.75	0.23	39	
SS02G07FD	0629714	5001306	21.4	0.9	0.6	8.9	8.6	0.09	0.72	0.24	41	
SS02G07.5	0630162	5000297	18.9	1	0.2	9.5	6	0.02	0.71	0.24	36	
SS02H02	0631859	5011067	16.8	0.9	< 2	8.6	5.6	0.06	0.84	0.28	39	
SS02H03	0632095	5008467	21	1.1	0.7	6.7	6.3	0.1	0.45	0.2	34	
SS02H04	0631840	5006747	16.4	0.8	1.2	7.6	5.4	0.06	0.55	0.22	31	
SS02H06	0632123	5002840	14.4	1.6	3.8	5.8	7	0.08	0.37	0.16	56	
SS02K02	0634438	5011556	23	1.2	1.1	8	7.1	0.07	0.65	0.26	36	
SS02K03	0633557	5008875	16.9	1	0.8	8.1	7	0.03	0.69	0.26	41	
SS02KL03	0635020	5008586	21.3	1.3	1.1	8.6	10.4	0.08	0.72	0.29	48	
SS02L02	0636551	5011585	21.9	1.3	1.2	7.6	10	0.04	0.41	0.26	35	
SS02M02	0638175	5011040	20.5	1.2	0.9	7.3	4.2	0.17	0.28	0.23	36	
SS02M03	0638029	5009696	13.1	0.7	1.5	5.8	3.7	0.05	0.41	0.2	29	
SS02M04.5	0637636	5006188	18.7	0.9	4.7	8.3	12.1	0.05	0.7	0.26	38	
SS02M05	0638778	5004450	24.5	2.3	2.9	9.5	11.2	0.21	2.53	0.24	54	
SS02N02	0639952	5011070	14.7	1.2	0.2	9.6	7.3	0.06	0.41	0.26	40	
SS02N03	0639901	5009279	30.4	2.2	1.1	10.1	6.9	0.23	0.57	0.31	36	
SS02N04	0639856	5007395	10.6	0.8	0.5	7	4.9	0.03	0.31	0.19	30	
SS02N05.5	0640262	5003989	21.6	1.1	1.5	7.5	6.1	0.08	0.91	0.22	40	
SS02P02-1	0642283	5011210	19.9	1.4	1.6	7.9	4.3	0.07	0.52	0.3	40	

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

	UTM Eastings	UTM Northings	As	U	Au	Th	Sr	Cd	Sb	Bi	V
	NAD27 (m)	NAD27 (m)	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
SS02P02-2	0642283	5011210	21.1	0.7	< 2	6.6	16.2	0.08	0.7	0.3	42
SS02P04	0642296	5006977	57.9	1.9	5.1	10.7	4.6	0.13	1.87	0.38	49
SS02P05.5	0641820	5004017	28.1	1.1	1.4	7.4	3.6	0.08	0.53	0.22	40
SS02PQ06	0643298	5002956	15.4	0.8	1.2	6.4	3.8	0.03	0.52	0.18	38
SS02Q03	0644854	5009425	18.6	1	1.3	8.1	5.9	0.04	0.49	0.27	39
SS02QR04	0645157	5006463	18.2	0.9	0.8	6.5	6.5	0.09	0.36	0.23	46
SS02R02	0645821	5010486	8.2	1.2	1.1	8.7	10.3	0.07	0.28	0.2	52
SS02R03	0646213	5008759	23.2	1	< 2	7.6	4.4	0.04	0.45	0.24	38
SS02R05	0646389	5004857	9.9	1.6	0.2	8.8	3.6	0.02	0.38	0.18	33
SS02R06	0647164	5002206	14.9	1.3	1	6.3	3.9	0.1	0.35	0.24	44
SS02S02	0648006	5010633	17.7	1	0.4	7	6.5	0.08	0.39	0.22	35
SS02S03	0648023	5009072	13.8	1	1.4	7.9	4.3	0.08	0.39	0.27	33
SS02S04	0648631	5007259	12.7	0.8	0.5	7.4	5.6	0.04	0.35	0.2	33
SS02S05	0648490	5005098	18	0.9	4.5	6.1	4.8	0.07	0.35	0.26	36
SS02S07	0647698	5000927	23.4	0.9	8.3	6.6	4.5	0.07	0.4	0.2	34
SS02ST06	0648998	5002957	15.7	1.1	1.1	8.3	5.9	0.05	0.42	0.23	32
SS02T02	0649777	5011028	12.6	0.8	0.7	8.1	5.5	0.02	0.46	0.24	41
SS02T03	0650434	5009473	15.9	1.4	1.3	10.1	3.2	0.17	0.31	0.28	22
SS02T04	0649988	5006439	17.4	0.9	0.9	6.9	5.6	0.05	0.32	0.18	25
SS02T05	0649524	5004711	11.1	1.3	0.3	4	2.8	0.1	0.25	0.16	28
SS02T08	0650006	4998664	32.5	0.9	1.7	6.5	3.2	0.07	0.46	0.27	34
SS02T09	0650259	4996976	32.6	1.4	1.1	8.3	1.7	0.06	0.71	0.27	25
SS02T10	0650384	4995144	12.9	1	0.8	5.2	3.6	0.03	0.32	0.12	19
SS02TV07	0651140	5001226	15.9	0.9	1.2	8.5	6.8	0.07	0.58	0.31	49
SS02V02	0651634	5011859	16.2	1	1.5	7.8	4.2	0.02	0.43	0.29	41
SS02V03	0651727	5008885	21.1	3.3	0.7	7.9	3.2	0.07	0.29	0.34	27
SS02V04	0652076	5007518	12.5	0.8	0.3	5.7	4.8	0.03	0.27	0.15	25
SS02V05-1	0652052	5005352	18.8	0.8	1.6	6.5	6	0.06	0.35	0.17	35
SS02V05-2	0652052	5005352	20.3	0.9	2.2	7.9	5.1	0.04	0.66	0.2	34
SS02V06	0652053	5002333	11.8	0.9	0.6	6.4	4.3	0.09	0.23	0.21	38
SS02V09	0652076	4997506	14.6	0.9	1.6	7	4.4	0.05	0.42	0.2	33
SS02V10	0652360	4994561	19.5	0.9	12.6	8.2	4.6	0.04	0.7	0.18	36
SS02W02	0652360	4994561	12	1.6	2	14.7	3.5	0.12	0.36	0.27	32
SS02W03	0654301	5011030	27.8	3.8	1.3	9.7	5.3	0.1	0.5	0.34	36
SS02W04	0653932	5009306	12.5	0.7	0.8	5.6	3.7	0.05	0.31	0.2	32
SS02W05.5	0653629	5007139	15.2	0.9	< 2	5.5	3.7	0.03	0.18	0.19	33
SS02W07	0654023	5003859	15.4	0.8	0.4	8.9	11.6	0.04	0.57	0.26	46
SS02W08	0654163	5000335	13.9	0.9	< 2	7.4	6.1	0.03	0.44	0.18	35
SS02W08-1	0654452	4998579	15.8	1	0.4	7.4	6.5	0.04	0.45	0.17	34
SS02W9.5A	0654114	4996974	16.3	1.2	1.3	6.9	1.9	0.09	1.76	0.32	29
SS02W9.5B	0654707	4995455	19.5	0.9	0.6	7.8	19.3	0.11	0.64	0.28	42
SS02W9.5C	0653700	4996194	14.7	0.9	2.6	9.8	9.1	0.04	0.63	0.27	43
SS02X02	0656351	5011298	16.3	3.7	0.9	9.9	6.6	0.05	0.31	0.25	30
SS02X03	0655594	5009009	12.6	1	0.4	8.8	4.5	0.04	0.41	0.28	40
SS02X04	0655342	5006980	17.3	1	< 2	8.2	5.4	0.06	0.36	0.29	36
SS02X05	0655800	5004645	14.6	0.8	1.6	5.9	4.2	0.04	0.31	0.21	33
SS02X06	0655969	5002988	16.4	0.9	1.7	7.6	11.1	0.03	0.43	0.22	40

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

ACME ANALYTICAL LABORATORIES LTD											
DNRE - Minerals Division											
Acme file # A300127 Received: JAN 17 20											
Analysis: GROUP 1F5 - 5.00 GM											
	UTM Eastings	UTM Northings	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
	NAD27 (m)	NAD27 (m)	%	%	ppm	ppm	%	ppm	%	ppm	%
SS02C02	0622217	5011073	0.07	0.039	36.1	34.3	0.79	91.1	0.067	3	2
SS02C03	0622522	5009547	0.12	0.056	34.7	23	0.6	52.4	0.06	1	1.33
SS02D02	0624118	5011209	0.05	0.059	22.9	49.4	0.92	76.3	0.016	2	3.21
SS02D03	0623806	5009236	0.06	0.04	36.1	38.1	0.71	73.6	0.072	2	1.8
SS02D04	0624380	5007575	0.03	0.031	34.4	28.5	0.58	69.6	0.052	1	1.89
SS02D04.5	0624085	5005774	0.03	0.037	31.5	25.8	0.54	63.8	0.064	1	1.71
SS02E02	0626020	5010261	0.04	0.06	30.4	42.3	0.8	75.8	0.083	1	2.41
SS02E03	0626199	5008265	0.03	0.041	32.7	29.2	0.6	59.8	0.033	1	2.01
SS02E04	0625883	5006771	0.06	0.04	34.4	37.4	0.66	79.9	0.086	3	2
SS02E04FD	0625883	5006771	0.06	0.04	34.2	29.3	0.67	68.6	0.065	3	1.8
SS02E05	0625648	5005376	0.03	0.034	30.3	30.6	0.61	62.9	0.061	2	1.94
SS02E06.5	0626693	5002003	0.03	0.029	23.9	32.1	0.54	54.4	0.052	1	2.12
SS02F02	0628316	5011388	0.03	0.032	29.7	33.7	0.47	37.5	0.056	1	1.96
SS02F02.5	0627500	5009944	0.02	0.038	29.4	32.6	0.63	57.1	0.047	1	1.96
SS02F04.5	0628722	5005777	0.03	0.062	29.4	27.1	0.49	50.6	0.026	1	2.2
SS02F05.5	0627709	5003904	0.05	0.039	26	37.2	0.52	31.7	0.024	1	2.77
SS02F06	0628303	5002814	0.04	0.034	23.7	33.3	0.51	40.7	0.042	1	2.41
SS02F07	0628045	5000975	0.04	0.033	26.4	32.2	0.51	63.8	0.045	1	1.84
SS02F07A	0627874	5001018	0.03	0.046	24	27.7	0.51	57.4	0.076	1	1.63
SS02G02	0629956	5011000	0.05	0.043	29	75.2	0.86	64.6	0.103	1	2.47
SS02G03	0630183	5009483	0.04	0.041	29.8	35.3	0.56	38.9	0.05	1	2.01
SS02G04	0630214	5007106	0.07	0.035	25.1	35	0.56	58.6	0.057	1	2.27
SS02G05.5	0630946	5003833	0.03	0.035	25.7	37.8	0.49	43.1	0.041	1	2.88
SS02G06	0630674	5002766	0.03	0.048	29.3	27.6	0.54	50	0.073	1	1.65
SS02G07	0629714	5001306	0.07	0.058	36.4	36.8	0.73	100.5	0.07	2	2.09
SS02G07FD	0629714	5001306	0.05	0.053	34.4	38.7	0.76	96.7	0.083	3	2.23
SS02G07.5	0630162	5000297	0.03	0.034	29.4	37.8	0.7	85.8	0.064	2	2.23
SS02H02	0631859	5011067	0.03	0.042	35.2	37.7	0.76	93.5	0.079	3	2.21
SS02H03	0632095	5008467	0.08	0.049	26.8	37	0.64	42.1	0.092	1	2.12
SS02H04	0631840	5006747	0.04	0.04	30.6	31.8	0.63	67.6	0.059	1	1.83
SS02H06	0632123	5002840	0.06	0.041	20	37	0.69	56.9	0.064	2	3.31
SS02K02	0634438	5011556	0.09	0.05	28.2	29.3	0.65	57.7	0.076	2	1.83
SS02K03	0633557	5008875	0.06	0.038	32.2	33.1	0.73	80.7	0.07	3	2.04
SS02KL03	0635020	5008586	0.09	0.032	38.2	46.8	1	98.8	0.069	2	2.67
SS02L02	0636551	5011585	0.11	0.038	30.8	31.8	0.66	62.9	0.07	2	1.76
SS02M02	0638175	5011040	0.03	0.031	24.5	32.8	0.68	39.8	0.036	1	2.54
SS02M03	0638029	5009696	0.03	0.035	25	32	0.56	50.5	0.039	1	2.01
SS02M04.5	0637636	5006188	0.11	0.045	30.7	37.7	0.79	70.9	0.074	3	1.96
SS02M05	0638778	5004450	0.03	0.056	29.5	39.9	0.75	74.9	0.039	1	2.75
SS02N02	0639952	5011070	0.07	0.04	32.6	35.2	0.75	64.6	0.08	2	1.96
SS02N03	0639901	5009279	0.05	0.044	27.1	33.7	0.7	55.5	0.047	2	2.27
SS02N04	0639856	5007395	0.04	0.021	22.5	32.4	0.65	37.8	0.056	2	1.58
SS02N05.5	0640262	5003989	0.05	0.033	25.9	39.4	0.8	73.7	0.076	2	2.27
SS02P02-1	0642283	5011210	0.04	0.036	25.7	38.2	0.74	66.3	0.083	2	2.32

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

	UTM Eastings	UTM Northings	Ca	P	La	Cr	Mg	Ba	Ti	B	Al
	NAD27 (m)	NAD27 (m)	%	%	ppm	ppm	%	ppm	%	ppm	%
SS02P02-2	0642283	5011210	0.16	0.062	22.1	34.3	0.72	69.2	0.075	4	1.76
SS02P04	0642296	5006977	0.06	0.06	23.5	44.9	0.81	59.2	0.061	1	3.43
SS02P05.5	0641820	5004017	0.03	0.032	22.6	36.2	0.59	60.5	0.063	1	2.44
SS02PQ06	0643298	5002956	0.03	0.022	23	36.7	0.7	53.5	0.04	2	2.22
SS02Q03	0644854	5009425	0.06	0.048	28.6	35.2	0.72	75.3	0.087	3	2.08
SS02QR04	0645157	5006463	0.05	0.063	22.7	36.9	0.64	81.8	0.049	1	2.71
SS02R02	0645821	5010486	0.08	0.117	15.8	59.4	0.65	45.2	0.153	3	9
SS02R03	0646213	5008759	0.05	0.062	22.3	37	0.67	49.9	0.08	2	2.46
SS02R05	0646389	5004857	0.03	0.021	22.5	34.5	0.57	38	0.046	1	2.37
SS02R06	0647164	5002206	0.05	0.047	21.1	36.6	0.42	46.7	0.058	4	3.3
SS02S02	0648006	5010633	0.08	0.051	25.9	30.8	0.56	51.5	0.067	3	2.08
SS02S03	0648023	5009072	0.04	0.043	25.9	35.9	0.68	60.5	0.048	4	2.3
SS02S04	0648631	5007259	0.04	0.053	27	32.9	0.6	53.6	0.085	1	1.99
SS02S05	0648490	5005098	0.06	0.06	26	34.1	0.5	52.4	0.068	2	2.29
SS02S07	0647698	5000927	0.08	0.047	20.9	24.4	0.47	21.9	0.089	1	1.46
SS02ST06	0648998	5002957	0.1	0.059	30.9	29.8	0.55	42.9	0.093	< 1	1.6
SS02T02	0649777	5011028	0.04	0.033	26.4	39.6	0.73	86.6	0.098	3	2.5
SS02T03	0650434	5009473	0.08	0.056	25.7	21.4	0.36	23.3	0.057	2	1.86
SS02T04	0649988	5006439	0.13	0.068	22.3	24.1	0.43	27.1	0.058	2	1.4
SS02T05	0649524	5004711	0.04	0.093	23.8	21.1	0.27	30	0.022	2	3.39
SS02T08	0650006	4998664	0.05	0.059	16.7	30.6	0.5	32.7	0.079	2	2.52
SS02T09	0650259	4996976	0.02	0.092	6.6	44.3	0.32	38.5	0.008	1	3.32
SS02T10	0650384	4995144	0.1	0.061	13	21.6	0.26	20.7	0.034	1	1.94
SS02TV07	0651140	5001226	0.07	0.055	36.2	39.8	0.83	95.1	0.127	3	2.47
SS02V02	0651634	5011859	0.03	0.027	26.5	43.4	0.81	67.6	0.056	2	2.92
SS02V03	0651727	5008885	0.05	0.04	34.4	30.4	0.41	34.3	0.041	1	2.09
SS02V04	0652076	5007518	0.11	0.065	18.9	26	0.34	18.9	0.057	2	1.34
SS02V05-1	0652052	5005352	0.12	0.07	22.7	26	0.56	28.6	0.066	1	1.63
SS02V05-2	0652052	5005352	0.09	0.052	26	26.9	0.51	52.8	0.086	1	1.66
SS02V06	0652053	5002333	0.04	0.052	21.1	34.4	0.44	67	0.068	1	2.81
SS02V09	0652076	4997506	0.07	0.055	24.4	28.8	0.53	48.2	0.077	1	1.74
SS02V10	0652360	4994561	0.08	0.049	24.3	29.8	0.54	50.4	0.09	1	1.75
SS02W02	0652360	4994561	0.03	0.025	32.7	31.3	0.6	67.7	0.053	2	2.18
SS02W03	0654301	5011030	0.08	0.077	32	37	0.58	49.9	0.096	1	1.98
SS02W04	0653932	5009306	0.06	0.049	18.4	34.6	0.54	35.6	0.042	1	2.64
SS02W05.5	0653629	5007139	0.08	0.049	18.7	28.8	0.43	26.8	0.034	1	3.32
SS02W07	0654023	5003859	0.1	0.055	35.2	40.7	0.82	75.5	0.108	2	2.19
SS02W08	0654163	5000335	0.13	0.081	24.8	29.5	0.56	46	0.096	1	1.7
SS02W08-1	0654452	4998579	0.14	0.082	25.4	26.1	0.56	48.5	0.093	2	1.67
SS02W9.5A	0654114	4996974	0.02	0.167	10.9	24.2	0.19	46	0.018	1	1.94
SS02W9.5B	0654707	4995455	0.34	0.07	27.1	36.8	0.87	63	0.08	2	1.81
SS02W9.5C	0653700	4996194	0.08	0.035	39.7	38.2	0.88	65.5	0.095	1	2.23
SS02X02	0656351	5011298	0.13	0.06	31.6	26.7	0.54	41.4	0.063	1	1.66
SS02X03	0655594	5009009	0.04	0.039	27.9	36.8	0.69	82	0.09	2	2.28
SS02X04	0655342	5006980	0.05	0.038	23.9	37	0.77	42.2	0.066	1	2.4
SS02X05	0655800	5004645	0.08	0.055	24.5	32.2	0.52	33.2	0.072	1	2.22
SS02X06	0655969	5002988	0.14	0.067	26	36.3	0.68	65.5	0.103	1	1.91

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

ACME ANALYTICAL LABORATORIES LTD											
DNRE - Minerals Division											
Acme file # A300127 Received: JAN 17 21											
Analysis: GROUP 1F5 - 5.00 GM											
	UTM Eastings	UTM Northings	Na	K	W	Sc	Ti	S	Hg	Se	Te
	NAD27 (m)	NAD27 (m)	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm
SS02C02	0622217	5011073	0.016	0.17	0.2	5.6	0.08	< .01	15	0.2	< .02
SS02C03	0622522	5009547	0.005	0.07	0.2	4.2	0.04	0.02	17	0.1	< .02
SS02D02	0624118	5011209	0.005	0.11	0.1	4	0.12	0.03	108	0.7	< .02
SS02D03	0623806	5009236	0.026	0.19	0.2	6.2	0.08	< .01	17	0.2	< .02
SS02D04	0624380	5007575	0.016	0.17	0.2	5.3	0.09	< .01	11	0.2	< .02
SS02D04.5	0624085	5005774	0.015	0.14	0.2	4.7	0.07	0.01	30	0.3	0.02
SS02E02	0626020	5010261	0.014	0.15	0.4	5.5	0.1	0.02	39	0.5	0.03
SS02E03	0626199	5008265	0.005	0.12	0.5	3.5	0.1	0.02	35	0.6	0.04
SS02E04	0625883	5006771	0.016	0.23	0.3	5.4	0.09	0.01	17	0.3	0.02
SS02E04FD	0625883	5006771	0.015	0.16	0.3	4.4	0.07	< .01	15	0.2	0.02
SS02E05	0625648	5005376	0.009	0.13	0.3	5	0.08	0.01	26	0.5	0.03
SS02E06.5	0626693	5002003	0.005	0.07	0.4	3.9	0.09	0.02	38	0.6	0.03
SS02F02	0628316	5011388	0.006	0.04	0.7	3.4	0.1	0.02	35	0.6	< .02
SS02F02.5	0627500	5009944	0.014	0.09	0.3	3.3	0.07	< .01	24	0.4	0.03
SS02F04.5	0628722	5005777	0.005	0.06	0.2	2.8	0.13	0.01	137	0.7	< .02
SS02F05.5	0627709	5003904	0.004	0.05	0.6	3.1	0.08	0.01	68	1	< .02
SS02F06	0628303	5002814	0.004	0.07	0.4	2.8	0.1	< .01	56	0.9	< .02
SS02F07	0628045	5000975	0.005	0.09	0.3	2.8	0.08	< .01	43	0.4	< .02
SS02F07A	0627874	5001018	0.008	0.09	0.5	4.7	0.09	< .01	27	0.4	0.03
SS02G02	0629956	5011000	0.005	0.15	28.4	3.7	0.18	< .01	54	0.6	0.02
SS02G03	0630183	5009483	0.006	0.06	0.5	2.7	0.1	< .01	61	0.6	< .02
SS02G04	0630214	5007106	0.004	0.07	0.3	3.6	0.12	< .01	46	0.5	< .02
SS02G05.5	0630946	5003833	0.004	0.06	0.4	3.9	0.13	0.01	71	1.2	< .02
SS02G06	0630674	5002766	0.007	0.1	0.3	4.5	0.07	< .01	21	0.4	0.02
SS02G07	0629714	5001306	0.011	0.21	0.4	5.9	0.09	< .01	14	0.2	0.02
SS02G07FD	0629714	5001306	0.012	0.22	0.3	6.4	0.1	< .01	15	0.2	0.02
SS02G07.5	0630162	5000297	0.01	0.19	0.3	5.4	0.1	< .01	21	0.4	< .02
SS02H02	0631859	5011067	0.013	0.21	0.4	5.5	0.12	< .01	13	0.2	0.02
SS02H03	0632095	5008467	0.005	0.07	0.6	3.2	0.09	< .01	60	0.8	0.03
SS02H04	0631840	5006747	0.004	0.1	0.3	3.8	0.08	< .01	20	0.3	0.02
SS02H06	0632123	5002840	0.013	0.05	0.2	5.1	0.09	0.02	64	0.8	0.03
SS02K02	0634438	5011556	0.011	0.11	0.8	4.5	0.1	< .01	18	0.3	0.02
SS02K03	0633557	5008875	0.011	0.17	0.7	6	0.13	< .01	16	0.3	< .02
SS02KL03	0635020	5008586	0.017	0.17	0.5	6.4	0.16	< .01	19	0.4	0.04
SS02L02	0636551	5011585	0.006	0.08	0.7	4.4	0.11	< .01	12	0.2	0.02
SS02M02	0638175	5011040	0.004	0.06	0.6	2.8	0.16	< .01	82	1	0.02
SS02M03	0638029	5009696	0.006	0.09	0.6	3.2	0.09	< .01	38	0.4	0.02
SS02M04.5	0637636	5006188	0.014	0.18	0.5	5.4	0.13	< .01	16	0.2	0.04
SS02M05	0638778	5004450	0.008	0.08	0.2	3.8	0.12	< .01	42	1.3	0.03
SS02N02	0639952	5011070	0.009	0.16	0.5	5.5	0.16	< .01	13	0.1	0.02
SS02N03	0639901	5009279	0.013	0.1	0.6	3.6	0.12	0.02	40	1.2	0.03
SS02N04	0639856	5007395	0.006	0.08	0.4	3.3	0.07	< .01	17	0.2	< .02
SS02N05.5	0640262	5003989	0.009	0.13	0.3	5.6	0.11	< .01	28	0.4	0.03
SS02P02-1	0642283	5011210	0.008	0.12	0.8	4.9	0.13	< .01	35	0.5	0.02

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

	UTM Eastings NAD27 (m)	UTM Northings NAD27 (m)	Na %	K %	W ppm	Sc ppm	Ti ppm	S %	Hg ppb	Se ppm	Te ppm
SS02P02-2	0642283	5011210	0.013	0.19	0.7	5.5	0.13	< .01	13	0.2	< .02
SS02P04	0642296	5006977	0.005	0.07	0.5	5.3	0.13	0.02	40	1.9	0.06
SS02P05.5	0641820	5004017	0.005	0.07	0.4	4.6	0.12	0.02	26	0.6	< .02
SS02PQ06	0643298	5002956	0.005	0.08	0.3	3.9	0.1	0.03	48	0.5	0.03
SS02Q03	0644854	5009425	0.015	0.16	0.6	6.1	0.12	< .01	21	0.2	< .02
SS02QR04	0645157	5006463	0.005	0.07	0.5	3.9	0.13	0.02	61	0.7	0.02
SS02R02	0645821	5010486	0.011	0.07	0.5	8.1	0.09	0.05	164	2.7	0.02
SS02R03	0646213	5008759	0.005	0.1	0.6	4.6	0.1	< .01	46	0.5	0.04
SS02R05	0646389	5004857	0.005	0.07	0.3	3.1	0.12	0.05	23	0.6	< .02
SS02R06	0647164	5002206	0.013	0.04	0.5	4.3	0.14	0.01	133	1.6	< .02
SS02S02	0648006	5010633	0.012	0.1	0.3	3.4	0.09	< .01	39	0.7	0.02
SS02S03	0648023	5009072	0.01	0.13	0.4	4.1	0.13	< .01	46	0.6	< .02
SS02S04	0648631	5007259	0.006	0.11	0.6	4.4	0.1	< .01	30	0.4	0.02
SS02S05	0648490	5005098	0.008	0.07	0.8	4.2	0.11	< .01	61	0.7	< .02
SS02S07	0647698	5000927	0.005	0.05	0.6	3.2	0.06	< .01	19	0.3	0.02
SS02ST06	0648998	5002957	0.007	0.07	0.6	4.6	0.08	< .01	24	0.4	0.02
SS02T02	0649777	5011028	0.017	0.2	0.2	6.1	0.14	< .01	18	0.2	0.02
SS02T03	0650434	5009473	0.004	0.04	0.5	2.4	0.08	0.04	52	0.7	< .02
SS02T04	0649988	5006439	0.009	0.07	0.5	3	0.08	0.02	34	0.3	< .02
SS02T05	0649524	5004711	0.004	0.03	0.4	4.5	0.1	0.04	154	2.2	< .02
SS02T08	0650006	4998664	0.008	0.08	0.8	4	0.1	< .01	91	1.4	< .02
SS02T09	0650259	4996976	0.004	0.1	0.5	3.3	0.21	< .01	145	1.6	0.03
SS02T10	0650384	4995144	0.004	0.04	0.3	2.7	0.05	< .01	58	1.1	< .02
SS02TV07	0651140	5001226	0.018	0.26	0.6	8.7	0.16	< .01	23	0.4	< .02
SS02V02	0651634	5011859	0.006	0.09	0.3	5.6	0.15	0.02	32	0.6	0.02
SS02V03	0651727	5008885	0.004	0.05	0.4	3.3	0.1	< .01	100	1.6	0.02
SS02V04	0652076	5007518	0.009	0.05	0.3	2.6	0.05	< .01	26	0.5	0.02
SS02V05-1	0652052	5005352	0.007	0.07	0.5	3.5	0.07	< .01	19	0.5	0.02
SS02V05-2	0652052	5005352	0.012	0.09	0.4	4.3	0.1	< .01	12	0.3	< .02
SS02V06	0652053	5002333	0.006	0.06	0.6	4.1	0.13	< .01	80	1.1	0.03
SS02V09	0652076	4997506	0.005	0.08	0.6	4.2	0.09	< .01	35	0.4	0.02
SS02V10	0652360	4994561	0.01	0.09	0.4	4.7	0.09	< .01	12	0.3	< .02
SS02W02	0652360	4994561	0.006	0.05	0.4	3	0.13	< .01	71	0.7	< .02
SS02W03	0654301	5011030	0.006	0.11	0.4	4.4	0.13	< .01	47	0.5	< .02
SS02W04	0653932	5009306	0.006	0.06	0.3	3.9	0.09	0.01	72	0.7	0.02
SS02W05.5	0653629	5007139	0.004	0.03	0.3	5.1	0.1	< .01	114	1.2	< .02
SS02W07	0654023	5003859	0.024	0.23	0.4	6.6	0.15	< .01	14	0.3	< .02
SS02W08	0654163	5000335	0.01	0.11	0.6	4.5	0.08	< .01	13	0.2	< .02
SS02W08-1	0654452	4998579	0.013	0.11	0.6	4.6	0.08	< .01	16	0.2	< .02
SS02W9.5A	0654114	4996974	0.003	0.11	0.6	2	0.3	0.01	60	1	0.02
SS02W9.5B	0654707	4995455	0.023	0.23	0.4	4.9	0.12	< .01	20	0.3	0.02
SS02W9.5C	0653700	4996194	0.012	0.15	0.3	5.3	0.12	< .01	22	0.4	0.03
SS02X02	0656351	5011298	0.006	0.07	0.4	2.9	0.07	< .01	27	0.2	0.02
SS02X03	0655594	5009009	0.01	0.12	0.3	5.9	0.11	< .01	21	0.3	0.02
SS02X04	0655342	5006980	0.006	0.07	0.4	4.1	0.1	< .01	26	0.3	0.03
SS02X05	0655800	5004645	0.006	0.06	0.3	3.3	0.09	< .01	72	0.4	< .02
SS02X06	0655969	5002988	0.014	0.12	0.3	6.3	0.09	< .01	22	0.2	0.02

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

ACME ANALYTICAL LABORATORIES LTD				
DNRE - Minerals Division				
Acme file # A300127 Received: JAN 17 21				
Analysis: GROUP 1F5 - 5.00 GM				
	UTM Eastings	UTM Northings	Ga	Sample
	NAD27 (m)	NAD27 (m)	ppm	gm
SS02C02	0622217	5011073	5.9	5
SS02C03	0622522	5009547	4.1	5
SS02D02	0624118	5011209	7.5	1
SS02D03	0623806	5009236	5.6	5
SS02D04	0624380	5007575	5.5	5
SS02D04.5	0624085	5005774	4.5	5
SS02E02	0626020	5010261	5.8	5
SS02E03	0626199	5008265	5.1	5
SS02E04	0625883	5006771	5.3	5
SS02E04FD	0625883	5006771	5	5
SS02E05	0625648	5005376	5.1	5
SS02E06.5	0626693	5002003	5.1	5
SS02F02	0628316	5011388	5.5	5
SS02F02.5	0627500	5009944	5.4	5
SS02F04.5	0628722	5005777	5.5	5
SS02F05.5	0627709	5003904	4.7	5
SS02F06	0628303	5002814	5.1	5
SS02F07	0628045	5000975	4.9	5
SS02F07A	0627874	5001018	4.4	1
SS02G02	0629956	5011000	6	5
SS02G03	0630183	5009483	5.1	5
SS02G04	0630214	5007106	5.7	5
SS02G05.5	0630946	5003833	6.2	5
SS02G06	0630674	5002766	4.5	5
SS02G07	0629714	5001306	5.8	5
SS02G07FD	0629714	5001306	6.4	5
SS02G07.5	0630162	5000297	6.2	5
SS02H02	0631859	5011067	6	5
SS02H03	0632095	5008467	4.9	5
SS02H04	0631840	5006747	5	5
SS02H06	0632123	5002840	7.1	5
SS02K02	0634438	5011556	5.1	5
SS02K03	0633557	5008875	6	5
SS02KL03	0635020	5008586	7.1	5
SS02L02	0636551	5011585	5.2	5
SS02M02	0638175	5011040	5.3	5
SS02M03	0638029	5009696	4.7	5
SS02M04.5	0637636	5006188	6	5
SS02M05	0638778	5004450	6.6	5
SS02N02	0639952	5011070	5.8	5
SS02N03	0639901	5009279	5.4	5
SS02N04	0639856	5007395	4.5	5
SS02N05.5	0640262	5003989	5.5	5
SS02P02-1	0642283	5011210	6.1	5

Appendix 2. Analytical Data, St. Stephen Map Area (NTS 21 G/03)

	UTM Eastings	UTM Northings	Ga	Sample
	NAD27 (m)	NAD27 (m)	ppm	gm
SS02P02-2	0642283	5011210	5.5	1
SS02P04	0642296	5006977	6.9	5
SS02P05.5	0641820	5004017	5.7	5
SS02PQ06	0643298	5002956	5.5	5
SS02Q03	0644854	5009425	5.6	5
SS02QR04	0645157	5006463	6.3	5
SS02R02	0645821	5010486	10.6	5
SS02R03	0646213	5008759	5.6	5
SS02R05	0646389	5004857	5.3	5
SS02R06	0647164	5002206	7.3	5
SS02S02	0648006	5010633	5.5	5
SS02S03	0648023	5009072	5.9	5
SS02S04	0648631	5007259	5.4	5
SS02S05	0648490	5005098	5.5	5
SS02S07	0647698	5000927	3.5	5
SS02ST06	0648998	5002957	4.4	5
SS02T02	0649777	5011028	6.2	5
SS02T03	0650434	5009473	3.9	5
SS02T04	0649988	5006439	3.5	5
SS02T05	0649524	5004711	8.7	5
SS02T08	0650006	4998664	5.1	5
SS02T09	0650259	4996976	4.2	5
SS02T10	0650384	4995144	2.9	5
SS02TV07	0651140	5001226	7.5	5
SS02V02	0651634	5011859	7.1	5
SS02V03	0651727	5008885	5.8	5
SS02V04	0652076	5007518	3.1	5
SS02V05-1	0652052	5005352	4.4	5
SS02V05-2	0652052	5005352	4.8	5
SS02V06	0652053	5002333	6.3	5
SS02V09	0652076	4997506	4.7	5
SS02V10	0652360	4994561	4.8	5
SS02W02	0652360	4994561	5.9	5
SS02W03	0654301	5011030	5	5
SS02W04	0653932	5009306	4.6	5
SS02W05.5	0653629	5007139	4.9	1
SS02W07	0654023	5003859	6.5	5
SS02W08	0654163	5000335	4.2	5
SS02W08-1	0654452	4998579	4.5	5
SS02W9.5A	0654114	4996974	5.6	5
SS02W9.5B	0654707	4995455	5.7	5
SS02W9.5C	0653700	4996194	5.9	5
SS02X02	0656351	5011298	4.5	5
SS02X03	0655594	5009009	5.9	5
SS02X04	0655342	5006980	5.9	5
SS02X05	0655800	5004645	4.9	5
SS02X06	0655969	5002988	5.3	5

Appendix 3.

Site Data and Till Properties,

St. Stephen Map Area (NTS 21 G/03)

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Landform	Texture	Consistency				
bT = basal till	S = sand	LO = loose				
aT = ablation till	LS = loamy sand	VFR = very friable				
GM = glaciomarine	SL = sandy loam	FR = friable				
GF = glaciofluvial	SiL = silt loam	F = firm				
IC = ice contact	L = loam	VF = very firm				
R = bedrock	SCL = sandy-clay loam	LEGEND				
Rx = broken bedrock	CL = clay loam					
v = veneer	C = clay					
b = blanket	() = de-emphasis					
Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Landform	Texture	Consistency	Colour
SS02C02	0622217	5011073	bT	L	F	25Y5/4
SS02C03	0622522	5009547	bT	(Si)L	F	25Y5/6
SS02D02	0624118	5011209	bT	L	FR	25Y5/4
SS02D03	0623806	5009236	bT	(SC)L	F	25Y5/4
SS02D04	0624380	5007575	bT	SCL	FR	5Y5/3
SS02D04.5	0624085	5005774	bT	S(i)L	FR	25Y5/4
SS02E02	0626020	5010261	bT	L	F	25Y5/4
SS02E03	0626199	5008265	bT(meltout?)	(Si)L	FR	25Y5/4
SS02E04	0625883	5006771	bT	L	F	25Y4/4
SS02E04FD	0625883	5006771	bT	L	F	25Y4/4
SS02E05	0625648	5005376	bT	L	FR	25Y5/4
SS02E06.5	0626693	5002003	bT	L	FR	25Y5/4
SS02F02	0628316	5011388	aT	SiL	FR	25Y4/3
SS02F02.5	0627500	5009944	bT	L	F	5Y5/3
SS02F04.5	0628722	5005777	aT	(S)L	VFR	25Y5/6
SS02F05.5	0627709	5003904	bT	SL	F	25Y5/4
SS02F06	0628303	5002814	bT/R	(S)L	FR	25Y5/6
SS02F07	0628045	5000975	bT	L	FR	25Y5/3
SS02F07A	0627874	5001018	bT	L	FR	25Y4/4
SS02G02	0629956	5011000	bT	L	FR	25Y5/6
SS02G03	0630183	5009483	bT	SiL	FR	25Y5/4
SS02G04	0630214	5007106	bT(meltout)	SL	VFR	25Y5/4
SS02G05.5	0630946	5003833	bT(meltout?)	L	FR	25Y5/6
SS02G06	0630674	5002766	bT	SL	FR	25Y4/4
SS02G07	0629714	5001306	bT	SCL	VF	25Y4/4
SS02G07FD	0629714	5001306	bT	SCL	VF	25Y4/4
SS02G07.5	0630162	5000297	bT	SCL	F	25Y4/4
SS02H02	0631859	5011067	bT	SiL	F	25Y5/4
SS02H03	0632095	5008467	bT	L	FR	25Y5/6
SS02H04	0631840	5006747	bT	L	F	25Y5/4
SS02H06	0632123	5002840	bT	SL	VFR	25Y4/4
SS02K02	0634438	5011556	bT	L	F	25Y4/3
SS02K03	0633557	5008875	bT	SiL	F	25Y4/4
SS02KL03	0635020	5008586	bT	SCL	F	25Y5/3
SS02L02	0636551	5011585	bT	(S)L	FR	25Y5/4
SS02M02	0638175	5011040	bT	L	FR	25Y5/4

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Landform	Texture	Consistency	Colour
SS02M03	0638029	5009696	bT	(S)L	FR	25Y5/4
SS02M04.5	0637636	5006188	bT	L	VF	25Y5/3
SS02M05	0638778	5004450	aT/Rx	SL	LO	25Y4/4
SS02N02	0639952	5011070	bT	SCL	F	25Y4/3
SS02N03	0639901	5009279	bT	SiL	VFR	25Y4/4
SS02N04	0639856	5007395	bT	L	F	25Y5/3
SS02N05.5	0640262	5003989	bT	L	FR	25Y5/6
SS02P02-1	0642283	5011210	bT	SL	F	25Y5/3
SS02P02-2	0642283	5011210	bT	SL	F	25Y5/3
SS02P04	0642296	5006977	bT-meltout?	(S)L	VFR	25Y3/2
SS02P05.5	0641820	5004017	bT	L	VFR	25Y5/4
SS02PQ06	0643298	5002956	bT	L	FR	25Y6/3
SS02Q03	0644854	5009425	bT	L	F	25Y5/4
SS02QR04	0645157	5006463	bT	L	FR	25Y5/4
SS02R02	0645821	5010486	aT/Rx	(S)L	VFR	10YR3/3
SS02R03	0646213	5008759	bT-meltout	(S)L	VFR	25Y6/3
SS02R05	0646389	5004857	bT	SiL	FR	25Y5/4
SS02R06	0647164	5002206	bT	SiL	FR	25Y5/4
SS02S02	0648006	5010633	bT	SiL	FR	25Y5/3
SS02S03	0648023	5009072	bT	S(i)L	FR	25Y5/3
SS02S04	0648631	5007259	bT	L	FR	25Y6/4
SS02S05	0648490	5005098	bT	(S)L	FR	25Y4/3
SS02S07	0647698	5000927	aT	SL	VFR	25Y5/3
SS02ST06	0648998	5002957	aT	SL	VFR	25Y5/3
SS02T02	0649777	5011028	bT	L	FR	25Y5/4
SS02T03	0650434	5009473	aT	LS	LO	25Y5/4
SS02T04	0649988	5006439	aT	SL	FR	25Y4/4
SS02T05	0649524	5004711	aT	SL	VFR	10YR36
SS02T08	0650006	4998664	bT	L	FR	25Y4/4
SS02T09	0650259	4996976	aTv/Rx	LS	VFR	5YR33
SS02T10	0650384	4995144	aT/R	(S)L	FR	10YR4/2
SS02TV07	0651140	5001226	bT	L	F	25Y5/3
SS02V02	0651634	5011859	bT	L	FR	5Y5/3
SS02V03	0651727	5008885	bT	S(i)L	VFR	10YR4/3
SS02V04	0652076	5007518	bT-meltout	SL	F	10YR5/6
SS02V05-1	0652052	5005352	aTGMV	SiL		
SS02V05-2	0652052	5005352	aTGMV	SL	VFR	25Y4/3
SS02V06	0652053	5002333	bT-meltout	(S)L	VFR	10YR5/3
SS02V09	0652076	4997506	bT	SiL	FR	25Y54
SS02V10	0652360	4994561	bT	(S)L	F	25Y5/4
SS02V10FD	0652360	4994561	bT	(S)L	F	25Y5/4
SS02W02	0654301	5011030	bT	(S)L	VFR	25Y5/3
SS02W03	0653932	5009306	aT	SL	VFR	25Y4/4
SS02W04	0653629	5007139	bT	SL	FR	25Y4/4
SS02W05.5	0654023	5003859	bT	(S)L	VF	10YR4/6
SS02W07	0654163	5000335	bT	L	F	25Y53
SS02W08	0654452	4998579	bT/Rx	SL	F	25Y53
SS02W9.5A	0654114	4996974	bT-meltout?	SL	VFR	75YR4/6

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting	UTM Northing	Landform	Texture	Consistency	Colour
	(NAD27)	(NAD27)				
SS02W9.5CFD	0653700	4996194	bT	SCL	F	25Y5/3
SS02X02	0656351	5011298	bT	(S)L	F	25Y5/4
SS02X03	0655594	5009009	bT	L	FR	25Y5/4
SS02X04	0655342	5006980	bT	L	F	25Y5/4
SS02X05	0655800	5004645	aT	S(l)L	FR	25Y4/4
SS02X06	0655969	5002988	bT	(S)L	F	25Y53

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Landform	Texture	Consistency									
bT = basal till	S = sand	LO = loose									
aT = ablation till	LS = loamy sand	VFR = very friable									
GM = glaciomarine	SL = sandy loam	FR = friable									
GF = glaciofluvial	SIL = silt loam	F = firm									
iC = ice contact	L = loam	VF = very firm									
R = bedrock	SCL = sandy-clay loam	LEGEND									
Rx = broken bedrock	CL = clay loam										
v = veneer	C = clay										
b = blanket	() = de-emphasis										
Sample ID	UTM Easting	UTM Northing	Depth	Sand	Silt	Clay	Sedimentary Clasts (%)				
	(NAD27)	(NAD27)	to Base	%	%	%	Siltstone		Sandstone		
			(cm)				Red	Grey	Red	Grey	
SS02C02	0622217	5011073	64	40	33	27	0.0	25.0	0.0	62.5	
SS02C03	0622522	5009547	52	47	39	14	0.0	0.0	0.0	96.2	
SS02D02	0624118	5011209	58	77	13	10	0.0	9.4	1.0	67.7	
SS02D03	0623806	5009236	45	50	32	18	0.0	26.3	0.0	36.8	
SS02D04	0624380	5007575	72	48	32	20	0.0	17.9	0.0	48.7	
SS02D04.5	0624085	5005774	65	43	41	16	0.0	11.7	0.0	60.0	
SS02E02	0626020	5010261	75	72	20	8	0.0	2.6	5.3	73.7	
SS02E03	0626199	5008265	75	45	36	19	0.0	0.0	0.0	74.5	
SS02E04	0625883	5006771	82	54	30	16	0.0	12.8	0.0	64.1	
SS02E04FD	0625883	5006771	82	46	33	21					
SS02E05	0625648	5005376	59	49	34	17	0.0	21.6	0.0	40.5	
SS02E06.5	0626693	5002003	62	52	39	9	0.0	9.1	0.0	63.6	
SS02F02	0628316	5011388	59	63	34	3	0.0	3.8	0.0	75.9	
SS02F02.5	0627500	5009944	48	53	34	13	2.5	2.5	0.0	57.5	
SS02F04.5	0628722	5005777	64	60	28	12	0.0	0.0	0.0	0.0	
SS02F05.5	0627709	5003904	63	60	35	5	0.0	0.0	0.0	81.5	
SS02F06	0628303	5002814	66	53	38	9	0.0	0.0	0.0	90.5	
SS02F07	0628045	5000975	74	62	29	9	0.0	1.8	0.0	87.5	
SS02F07A	0627874	5001018	81	59	32	9	0.0	0.0	0.0	68.0	
SS02G02	0629956	5011000	66	51	40	9	0.0	4.9	2.4	12.2	
SS02G03	0630183	5009483	72	41	48	11	0.0	0.0	0.0	71.1	
SS02G04	0630214	5007106	59	70	25	5	0.0	18.8	0.0	70.8	
SS02G05.5	0630946	5003833	68	35	53	12	0.0	0.0	0.0	98.1	
SS02G06	0630674	5002766	76	53	36	11	0.0	0.0	0.0	98.7	
SS02G07	0629714	5001306	130	40	32	28	0.0	2.5	0.0	82.5	
SS02G07FD	0629714	5001306	130	38	35	27					
SS02G07.5	0630162	5000297	68	41	33	26	0.0	0.0	0.0	78.7	
SS02H02	0631859	5011067	78	43	30	27	0.0	6.0	0.0	84.0	
SS02H03	0632095	5008467	62	62	31	7	0.0	6.8	0.0	72.7	
SS02H04	0631840	5006747	53	50	34	16	0.0	0.0	0.0	83.9	
SS02H06	0632123	5002840	74	64	31	5	0.0	0.0	0.0	0.0	
SS02K02	0634438	5011556	76	53	36	11	0.0	0.0	0.0	52.9	
SS02K03	0633557	5008875	75	44	36	20	0.0	0.0	0.0	85.7	
SS02KL03	0635020	5008586	62	46	33	21	0.0	0.0	0.0	78.3	
SS02L02	0636551	5011585	80	55	36	9	0.0	0.0	0.0	86.0	
SS02M02	0638175	5011040	49	45	45	10	0.0	0.0	0.0	94.2	

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Depth to Base (cm)	Sand %	Silt %	Clay %	Sedimentary Clasts (%)			
							Siltstone		Sandstone	
							Red	Grey	Red	Grey
SS02M03	0638029	5009696	66	57	32	11	0.0	0.0	0.0	87.2
SS02M04.5	0637636	5006188	76	49	33	18	0.0	15.4	0.0	61.5
SS02M05	0638778	5004450	65	48	32	20	0.0	0.0	0.0	100.0
SS02N02	0639952	5011070	NA	63	27	10	0.0	0.0	0.0	68.3
SS02N03	0639901	5009279	72	55	34	11	0.0	0.0	0.0	5.8
SS02N04	0639856	5007395	85	38	46	16	0.0	0.0	0.0	72.5
SS02N05.5	0640262	5003989	87	55	29	16	0.0	5.3	0.0	74.7
SS02P02-1	0642283	5011210	93	59	28	13	0.0	0.0	0.0	87.9
SS02P02-2	0642283	5011210	250	53	29	18				
SS02P04	0642296	5006977	64	66	23	11	0.0	0.0	0.0	87.1
SS02P05.5	0641820	5004017	59	45	39	16	0.0	0.0	0.0	66.1
SS02PQ06	0643298	5002956	58	38	40	22	0.0	2.5	2.5	55.0
SS02Q03	0644854	5009425	NA	51	32	17	0.0	0.0	0.0	58.9
SS02QR04	0645157	5006463	67	47	42	11	0.0	0.0	0.0	43.4
SS02R02	0645821	5010486	55	61	35	4	0.0	0.0	0.0	100.0
SS02R03	0646213	5008759	60	57	35	8	0.0	0.0	0.0	75.0
SS02R05	0646389	5004857	83	36	54	10	0.0	0.0	0.0	51.7
SS02R06	0647164	5002206	57	58	38	4	0.0	0.0	0.0	30.2
SS02S02	0648006	5010633	68	58	34	8	0.0	0.0	4.2	58.3
SS02S03	0648023	5009072	42	49	35	16	0.0	0.0	0.0	39.1
SS02S04	0648631	5007259	58	56	36	8	0.0	0.0	0.0	67.9
SS02S05	0648490	5005098	61	65	31	4	0.0	0.0	0.0	47.1
SS02S07	0647698	5000927	102	68	30	2	0.0	0.0	0.0	73.3
SS02ST06	0648998	5002957	70	59	34	7	0.0	0.0	0.0	60.8
SS02T02	0649777	5011028	66	47	31	22	0.0	0.0	0.0	62.5
SS02T03	0650434	5009473	80	87	3	10	0.0	0.0	0.0	0.0
SS02T04	0649988	5006439	77	65	31	4	0.0	0.0	0.0	41.4
SS02T05	0649524	5004711	77	60	38	2	0.0	0.0	0.0	2.5
SS02T08	0650006	4998664	139	68	30	2	0.0	0.0	0.0	50.0
SS02T09	0650259	4996976	49	88	11	1	0.0	0.0	21.2	36.4
SS02T10	0650384	4995144	55	78	21	1	0.0	0.0	7.7	63.5
SS02TV07	0651140	5001226	97	52	30	18	0.0	0.0	0.0	52.4
SS02V02	0651634	5011859	62	47	33	20	0.0	0.0	0.0	84.0
SS02V03	0651727	5008885	75	64	34	2	0.0	0.0	0.0	10.3
SS02V04	0652076	5007518	69	65	34	1	0.0	0.0	5.6	44.4
SS02V05-1	0652052	5005352	92	66	32	2	3.0	0.0	0.0	51.5
SS02V05-2	0652052	5005352	115	100	0	0				
SS02V06	0652053	5002333	66	71	24	5	0.0	0.0	0.0	100.0
SS02V09	0652076	4997506	58	55	35	10	0.0	0.0	9.4	28.1
SS02V10	0652360	4994561	67	60	32	8	0.0	0.0	2.7	70.3
SS02V10FD	0652360	4994561	67	59	32	9				
SS02W02	0654301	5011030	66	47	42	11	0.0	0.0	0.0	3.1
SS02W03	0653932	5009306	65	66	27	7	0.0	0.0	0.0	38.1
SS02W04	0653629	5007139	93	70	26	4	0.0	0.0	0.0	70.6
SS02W05.5	0654023	5003859	117	59	39	2	0.0	0.0	6.1	75.8
SS02W07	0654163	5000335	94	44	31	25	0.0	0.0	13.8	37.9
SS02W08	0654452	4998579	200	61	30	9	0.0	0.0	22.1	24.4
SS02W9.5A	0654114	4996974	58	72	22	6	0.0	0.0	0.0	87.2

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Depth to Base (cm)	Sand %	Silt %	Clay %	Sedimentary Clasts (%)			
							Siltstone		Sandstone	
							Red	Grey	Red	Grey
SS02W9.5CFD	0653700	4996194	76	50	33	17				
SS02X02	0656351	5011298	100	58	34	8	0.0	0.0	0.0	50.8
SS02X03	0655594	5009009	56	54	33	13	0.0	0.0	0.0	51.8
SS02X04	0655342	5006980	93	49	41	10	0.0	0.0	0.0	58.5
SS02X05	0655800	5004645	86	68	27	5	0.0	0.0	0.0	60.6
SS02X06	0655969	5002988	54	57	33	10	0.0	0.0	0.0	76.1

Landform	Texture	Consistency																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Sedimentary Clasts (%)					Intrusive Clasts (%)		
			Conglom.		Met.Sed			Granites	Inter.	Gabbros
			Red	Grey	Slatey	SMS	Schist.			
SS02M03	0638029	5009696	0.0	0.0	0.0	0.0	0.0	7.7	0.0	2.6
SS02M04.5	0637636	5006188	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.0
SS02M05	0638778	5004450	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02N02	0639952	5011070	0.0	0.0	9.8	0.0	0.0	4.9	0.0	4.9
SS02N03	0639901	5009279	0.0	0.0	92.3	0.0	0.0	0.0	0.0	1.9
SS02N04	0639856	5007395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0
SS02N05.5	0640262	5003989	0.0	0.0	0.0	0.0	0.0	5.3	0.0	10.7
SS02P02-1	0642283	5011210	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0
SS02P02-2	0642283	5011210								
SS02P04	0642296	5006977	0.0	0.0	0.0	0.0	0.0	3.2	0.0	6.5
SS02P05.5	0641820	5004017	3.6	0.0	3.6	0.0	0.0	16.1	0.0	7.1
SS02PQ06	0643298	5002956	0.0	0.0	17.5	0.0	0.0	2.5	0.0	12.5
SS02Q03	0644854	5009425	0.0	0.0	0.0	0.0	0.0	21.4	0.0	0.0
SS02QR04	0645157	5006463	0.0	0.0	0.0	0.0	0.0	7.5	0.0	43.4
SS02R02	0645821	5010486	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02R03	0646213	5008759	0.0	0.0	0.0	0.0	0.0	8.3	0.0	11.7
SS02R05	0646389	5004857	0.0	0.0	0.0	0.0	0.0	34.5	0.0	10.3
SS02R06	0647164	5002206	0.0	0.0	0.0	0.0	0.0	48.8	0.0	18.6
SS02S02	0648006	5010633	0.0	0.0	0.0	0.0	0.0	4.2	0.0	29.2
SS02S03	0648023	5009072	0.0	0.0	0.0	0.0	0.0	30.4	0.0	8.7
SS02S04	0648631	5007259	0.0	1.8	0.0	0.0	0.0	7.1	0.0	5.4
SS02S05	0648490	5005098	0.0	17.6	0.0	0.0	0.0	23.5	0.0	5.9
SS02S07	0647698	5000927	0.0	1.7	0.0	0.0	0.0	8.3	0.0	15.0
SS02ST06	0648998	5002957	0.0	0.0	3.9	0.0	0.0	7.8	0.0	13.7
SS02T02	0649777	5011028	3.1	3.1	0.0	0.0	0.0	3.1	0.0	6.3
SS02T03	0650434	5009473	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0
SS02T04	0649988	5006439	0.0	0.0	0.0	0.0	0.0	34.5	0.0	3.4
SS02T05	0649524	5004711	0.0	0.0	0.0	0.0	0.0	0.0	15.0	82.5
SS02T08	0650006	4998664	0.0	0.0	2.9	0.0	0.0	17.6	2.9	11.8
SS02T09	0650259	4996976	0.0	0.0	3.0	0.0	0.0	12.1	0.0	3.0
SS02T10	0650384	4995144	0.0	0.0	0.0	0.0	0.0	7.7	0.0	17.3
SS02TV07	0651140	5001226	0.0	0.0	0.0	0.0	0.0	33.3	0.0	4.8
SS02V02	0651634	5011859	0.0	0.0	0.0	0.0	0.0	8.0	0.0	4.0
SS02V03	0651727	5008885	0.0	0.0	0.0	0.0	0.0	86.2	0.0	3.4
SS02V04	0652076	5007518	0.0	5.6	5.6	0.0	0.0	27.8	5.6	5.6
SS02V05-1	0652052	5005352	0.0	0.0	0.0	0.0	0.0	18.2	0.0	15.2
SS02V05-2	0652052	5005352								
SS02V06	0652053	5002333	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02V09	0652076	4997506	0.0	0.0	3.1	0.0	0.0	21.9	9.4	12.5
SS02V10	0652360	4994561	0.0	0.0	5.4	0.0	0.0	16.2	0.0	2.7
SS02V10FD	0652360	4994561								
SS02W02	0654301	5011030	0.0	0.0	0.0	0.0	0.0	93.8	0.0	0.0
SS02W03	0653932	5009306	0.0	0.0	0.0	0.0	0.0	42.9	9.5	4.8
SS02W04	0653629	5007139	0.0	0.0	0.0	0.0	0.0	11.8	3.9	9.8
SS02W05.5	0654023	5003859	0.0	3.0	0.0	0.0	0.0	9.1	0.0	0.0
SS02W07	0654163	5000335	0.0	0.0	6.9	0.0	0.0	17.2	0.0	10.3
SS02W08	0654452	4998579	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02W9.5A	0654114	4996974	0.0	0.0	2.1	0.0	0.0	8.5	0.0	0.0

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Sedimentary Clasts (%)						Intrusive Clasts (%)		
			Conglom.		Met.Sed				Granites	Inter.	Gabbros
			Red	Grey	Slatey	SMS	Schist.				
SS02W9.5CFD	0653700	4996194									
SS02X02	0656351	5011298	0.0	0.0	1.7	0.0	0.0		35.6	0.0	6.8
SS02X03	0655594	5009009	0.0	0.0	0.0	0.0	0.0		28.6	0.0	3.6
SS02X04	0655342	5006980	0.0	0.0	0.0	0.0	0.0		12.2	0.0	19.5
SS02X05	0655800	5004645	0.0	0.0	0.0	0.0	3.0		27.3	3.0	6.1
SS02X06	0655969	5002988	0.0	0.0	2.2	0.0	0.0		10.9	0.0	4.3

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Landform	Texture	Consistency							
bT = basal till	S = sand	LO = loose							
aT = ablation till	LS = loamy sand	VFR = very friable							
GM = glaciomarine	SL = sandy loam	FR = friable							
GF = glaciofluvial	SIL = silt loam	F = firm							
IC = ice contact	L = loam	VF = very firm							
R = bedrock	SCL = sandy-clay loam	LEGEND							
Rx = broken bedrock	CL = clay loam								
v = veneer	C = clay								
b = blanket	() = de-emphas								
Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Volcanic Clasts (%)			Others (%)			
			Mafic	Inter.	Felsic	Quartz	Quartzite	Blk. Chert	Gneiss
SS02C02	0622217	5011073	2.5	2.5	0.0	5.0	0.0	0.0	0.0
SS02C03	0622522	5009547	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02D02	0624118	5011209	3.1	0.0	3.1	5.2	3.1	0.0	0.0
SS02D03	0623806	5009236	0.0	0.0	5.3	15.8	10.5	0.0	0.0
SS02D04	0624380	5007575	0.0	0.0	7.7	5.1	12.8	0.0	0.0
SS02D04.5	0624085	5005774	1.7	0.0	5.0	6.7	8.3	0.0	0.0
SS02E02	0626020	5010261	0.0	0.0	5.3	0.0	2.6	0.0	0.0
SS02E03	0626199	5008265	0.0	0.0	0.0	2.0	3.9	0.0	0.0
SS02E04	0625883	5006771	0.0	0.0	2.6	2.6	2.6	0.0	0.0
SS02E04FD	0625883	5006771							
SS02E05	0625648	5005376	2.7	0.0	0.0	8.1	5.4	0.0	0.0
SS02E06.5	0626693	5002003	6.1	0.0	0.0	0.0	3.0	0.0	0.0
SS02F02	0628316	5011388	0.0	0.0	1.3	3.8	1.3	0.0	0.0
SS02F02.5	0627500	5009944	5.0	0.0	0.0	10.0	5.0	0.0	0.0
SS02F04.5	0628722	5005777	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02F05.5	0627709	5003904	0.0	0.0	0.0	3.7	0.0	0.0	0.0
SS02F06	0628303	5002814	0.0	0.0	4.8	2.4	0.0	0.0	0.0
SS02F07	0628045	5000975	1.8	0.0	3.6	1.8	0.0	0.0	0.0
SS02F07A	0627874	5001018	0.0	0.0	2.0	4.0	0.0	0.0	0.0
SS02G02	0629956	5011000	0.0	0.0	0.0	4.9	0.0	0.0	0.0
SS02G03	0630183	5009483	0.0	0.0	0.0	2.6	2.6	0.0	0.0
SS02G04	0630214	5007106	2.1	0.0	2.1	0.0	2.1	0.0	0.0
SS02G05.5	0630946	5003833	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02G06	0630674	5002766	0.0	0.0	0.6	0.2	0.0	0.0	0.0
SS02G07	0629714	5001306	2.5	0.0	2.5	5.0	2.5	0.0	0.0
SS02G07FD	0629714	5001306							
SS02G07.5	0630162	5000297	0.0	0.0	6.4	2.1	4.3	0.0	0.0
SS02H02	0631859	5011067	0.0	0.0	2.0	0.0	0.0	0.0	0.0
SS02H03	0632095	5008467	0.0	0.0	4.5	0.0	0.0	0.0	0.0
SS02H04	0631840	5006747	0.0	0.0	6.5	0.0	0.0	0.0	0.0
SS02H06	0632123	5002840	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02K02	0634438	5011556	0.0	0.0	5.9	11.8	0.0	0.0	0.0
SS02K03	0633557	5008875	0.0	0.0	4.8	2.4	0.0	0.0	0.0
SS02KL03	0635020	5008586	0.0	0.0	0.0	4.3	2.2	0.0	0.0
SS02L02	0636551	5011585	0.0	0.0	2.3	2.3	2.3	0.0	0.0
SS02M02	0638175	5011040	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Volcanic Clasts (%)			Others (%)			
			Mafic	Inter.	Felsic	Quartz	Quartzite	Blk. Chert	Gneiss
SS02M03	0638029	5009696	0.0	0.0	0.0	2.6	0.0	0.0	0.0
SS02M04.5	0637636	5006188	15.4	0.0	0.0	0.0	0.0	0.0	0.0
SS02M05	0638778	5004450	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02N02	0639952	5011070	2.4	0.0	0.0	2.4	7.3	0.0	0.0
SS02N03	0639901	5009279	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02N04	0639856	5007395	0.0	0.0	10.0	2.5	5.0	0.0	0.0
SS02N05.5	0640262	5003989	1.3	0.0	1.3	0.0	1.3	0.0	0.0
SS02P02-1	0642283	5011210	0.0	0.0	0.0	0.0	1.5	3.0	0.0
SS02P02-2	0642283	5011210							
SS02P04	0642296	5006977	0.0	0.0	0.0	3.2	0.0	0.0	0.0
SS02P05.5	0641820	5004017	0.0	0.0	0.0	0.0	3.6	0.0	0.0
SS02PQ06	0643298	5002956	0.0	0.0	0.0	5.0	2.5	0.0	0.0
SS02Q03	0644854	5009425	0.0	0.0	3.6	10.7	3.6	1.8	0.0
SS02QR04	0645157	5006463	1.9	0.0	3.8	0.0	0.0	0.0	0.0
SS02R02	0645821	5010486	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02R03	0646213	5008759	1.7	0.0	0.0	3.3	0.0	0.0	0.0
SS02R05	0646389	5004857	0.0	0.0	0.0	0.0	3.4	0.0	0.0
SS02R06	0647164	5002206	0.0	0.0	0.0	2.3	0.0	0.0	0.0
SS02S02	0648006	5010633	4.2	0.0	0.0	0.0	0.0	0.0	0.0
SS02S03	0648023	5009072	8.7	0.0	8.7	4.3	0.0	0.0	0.0
SS02S04	0648631	5007259	0.0	0.0	10.7	5.4	1.8	0.0	0.0
SS02S05	0648490	5005098	5.9	0.0	0.0	0.0	0.0	0.0	0.0
SS02S07	0647698	5000927	0.0	0.0	0.0	1.7	0.0	0.0	0.0
SS02ST06	0648998	5002957	0.0	0.0	7.8	3.9	2.0	0.0	0.0
SS02T02	0649777	5011028	0.0	0.0	12.5	9.4	0.0	0.0	0.0
SS02T03	0650434	5009473	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02T04	0649988	5006439	0.0	0.0	17.2	3.4	0.0	0.0	0.0
SS02T05	0649524	5004711	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02T08	0650006	4998664	2.9	0.0	10.3	0.0	1.5	0.0	0.0
SS02T09	0650259	4996976	15.2	0.0	6.1	3.0	0.0	0.0	0.0
SS02T10	0650384	4995144	0.0	0.0	0.0	3.8	0.0	0.0	0.0
SS02TV07	0651140	5001226	0.0	0.0	4.8	0.0	4.8	0.0	0.0
SS02V02	0651634	5011859	0.0	0.0	2.0	2.0	0.0	0.0	0.0
SS02V03	0651727	5008885	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02V04	0652076	5007518	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02V05-1	0652052	5005352	3.0	3.0	0.0	6.1	0.0	0.0	0.0
SS02V05-2	0652052	5005352							
SS02V06	0652053	5002333	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02V09	0652076	4997506	6.3	0.0	3.1	3.1	3.1	0.0	0.0
SS02V10	0652360	4994561	0.0	0.0	0.0	2.7	0.0	0.0	0.0
SS02V10FD	0652360	4994561							
SS02W02	0654301	5011030	0.0	0.0	3.1	0.0	0.0	0.0	0.0
SS02W03	0653932	5009306	0.0	0.0	4.8	0.0	0.0	0.0	0.0
SS02W04	0653629	5007139	0.0	0.0	3.9	0.0	0.0	0.0	0.0
SS02W05.5	0654023	5003859	0.0	0.0	3.0	3.0	0.0	0.0	0.0
SS02W07	0654163	5000235	3.4	0.0	6.9	3.4	0.0	0.0	0.0
SS02W08	0654452	4998579	48.8	0.0	1.2	3.5	0.0	0.0	0.0
SS02W9.5A	0654114	4996974	0.0	0.0	2.1	0.0	0.0	0.0	0.0

Appendix 3. Site Data and Till Properties, St. Stephen Map Area (21 G/03)

Sample ID	UTM Easting (NAD27)	UTM Northing (NAD27)	Volcanic Clasts (%)			Others (%)			
			Mafic	Inter.	Felsic	Quartz	Quartzite	Blk. Chert	Gneiss
SS02W9.5CFD	0653700	4996194							
SS02X02	0656351	5011298	0.0	0.0	1.7	1.7	0.0	1.7	0.0
SS02X03	0655594	5009009	3.6	0.0	7.1	3.6	1.8	0.0	0.0
SS02X04	0655342	5006980	0.0	2.4	4.9	2.4	0.0	0.0	0.0
SS02X05	0655800	5004645	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SS02X06	0655969	5002988	0.0	0.0	2.2	0.0	2.2	2.2	0.0